

Luminaire

Code 10-8102-05-M1
Name TUBS

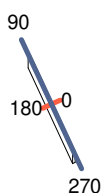
Measurem.

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Luminaire Flux	403 lm	Luminaire Power	13.3 W	Efficacy	30.301 lm/W	Efficiency	100.00%
Source Flux	403 lm	Maximum value	295.92 cd/klm	Position	C=90.00 G=0.00	CG	Asymmetrical
Rectangular Luminaire		Length	600 mm	Width	16 mm	Height	16 mm
Rectangular Luminous Area		Length	598 mm	Width	16 mm	Height	5 mm
Horizontal Luminous Area		0.009568 m2		Emitting area on Plane 180°		0.002990 m2	
Emitting area on Plane 0°		0.002990 m2		Emitting area on Plane 270°		0.000080 m2	
Emitting area on Plane 90°		0.000080 m2		Glare area at 76°		0.005216 m2	
Coordinate system		CG		Symmetry Type		Asymmetrical	
Date		27-11-2019		Maximum Gamma Angle		90	
Measurement Distance		0.00		Measurement Flux		403 lm	
Operator		qualitat		Rated Voltage			
Temperature				Rated Current			
Humidity				Photocell			
Notes							

Luminaire Sources						
Line		Code LED	Name	Flux [lm]	Pow. [W]	Q.ty
			10-8102-05-M1	403.00	13.30	1
C.I.E.	41 70 89 100 100		D DIN 5040	A30		
F UTE	1.00 G		B NBN	BZ 5		

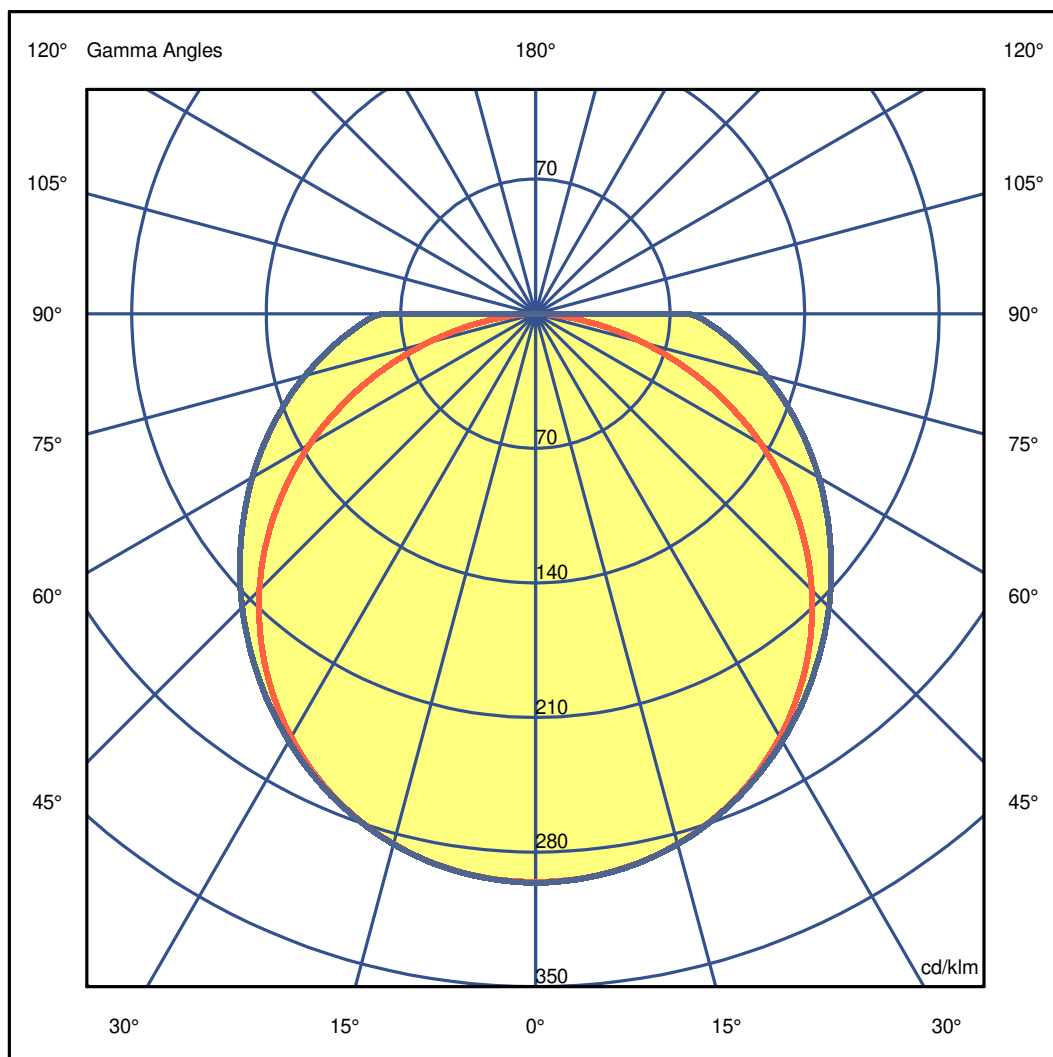
600mm x 16mm



C Halfplanes

180.0 — 0.0
270.0 — 90.0

ULOR 0.00 %
DLOR 100.00 %
RN 0.00 %



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Luminaire Flux		403 lm		Luminaire Power		13.3 W		Efficacy		30.301 lm/W		Efficiency		100.00%	
Source Flux		403 lm		Maximum value		295.92 cd/klm		Position		C=90.00 G=0.00		CG		Asymmetrical	
Luminous Intensity Table cd/klm															
Table 1/4															
	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00	C 105.00	C 120.00	C 135.00	C 150.00	C 165.00	C 180.00		
G 0.0	295.51	295.53	295.54	295.54	295.69	295.80	295.92	295.80	295.69	295.54	295.54	295.53	295.51	G 1.0	295.41
G 1.0	295.41	295.51	295.51	295.54	295.60	295.79	295.83	295.79	295.60	295.54	295.51	295.51	295.41	G 2.0	295.30
G 2.0	295.30	295.36	295.38	295.37	295.45	295.59	295.64	295.59	295.45	295.37	295.38	295.36	295.30	G 3.0	295.11
G 3.0	295.11	295.15	295.14	295.15	295.26	295.38	295.40	295.38	295.26	295.15	295.14	295.15	295.11	G 4.0	294.80
G 4.0	294.80	294.84	294.81	294.84	294.94	295.04	295.08	295.04	294.94	294.84	294.81	294.84	294.80	G 5.0	294.38
G 5.0	294.38	294.43	294.42	294.44	294.50	294.66	294.67	294.66	294.50	294.44	294.42	294.43	294.38	G 6.0	293.93
G 6.0	293.93	293.95	293.93	293.93	294.03	294.14	294.17	294.14	294.03	293.93	293.93	293.95	293.93	G 7.0	293.34
G 7.0	293.34	293.36	293.34	293.33	293.41	293.52	293.56	293.52	293.41	293.33	293.34	293.36	293.34	G 8.0	292.68
G 8.0	292.68	292.69	292.68	292.66	292.73	292.83	292.87	292.83	292.73	292.66	292.68	292.69	292.68	G 9.0	291.92
G 9.0	291.92	291.95	291.92	291.91	291.97	292.06	292.08	292.06	291.97	291.91	291.92	291.95	291.92	G 10.0	291.07
G 10.0	291.07	291.07	291.05	291.04	291.11	291.20	291.23	291.20	291.11	291.04	291.05	291.07	291.07	G 11.0	290.14
G 11.0	290.14	290.14	290.13	290.08	290.15	290.23	290.26	290.23	290.15	290.08	290.13	290.14	290.14	G 12.0	289.09
G 12.0	289.09	289.10	289.08	289.05	289.09	289.16	289.18	289.16	289.09	289.05	289.08	289.10	289.09	G 13.0	287.97
G 13.0	287.97	287.97	287.94	287.93	287.97	288.06	288.08	288.06	287.97	287.93	287.94	287.97	287.97	G 14.0	286.73
G 14.0	286.73	286.73	286.69	286.68	286.75	286.82	286.84	286.82	286.75	286.68	286.69	286.73	286.73	G 15.0	285.45
G 15.0	285.45	285.45	285.42	285.40	285.45	285.51	285.53	285.51	285.45	285.40	285.42	285.45	285.45	G 16.0	283.99
G 16.0	283.99	283.98	283.96	283.97	284.04	284.11	284.13	284.11	284.04	283.97	283.96	283.98	283.99	G 17.0	282.52
G 17.0	282.52	282.52	282.50	282.49	282.56	282.64	282.67	282.64	282.56	282.49	282.50	282.52	282.52	G 18.0	280.89
G 18.0	280.89	280.90	280.89	280.92	280.99	281.07	281.09	281.07	280.99	280.92	280.89	280.90	280.89	G 19.0	279.20
G 19.0	279.20	279.21	279.21	279.26	279.35	279.45	279.46	279.45	279.35	279.26	279.21	279.21	279.20	G 20.0	277.40
G 20.0	277.40	277.43	277.44	277.52	277.63	277.72	277.75	277.72	277.63	277.52	277.44	277.43	277.40	G 21.0	275.50
G 21.0	275.50	275.51	275.55	275.65	275.78	275.89	275.91	275.89	275.78	275.65	275.55	275.51	275.50	G 22.0	273.51
G 22.0	273.51	273.56	273.61	273.74	273.90	274.03	274.05	274.03	273.90	273.74	273.61	273.56	273.51	G 23.0	271.42
G 23.0	271.42	271.44	271.51	271.69	271.90	272.05	272.11	272.05	271.90	271.69	271.51	271.44	271.42	G 24.0	269.26
G 24.0	269.26	269.32	269.44	269.63	269.87	270.04	270.09	270.04	269.87	269.63	269.44	269.32	269.26	G 25.0	266.97
G 25.0	266.97	267.01	267.17	267.43	267.71	267.96	268.02	267.96	267.71	267.43	267.17	267.01	266.97	G 26.0	264.65
G 26.0	264.65	264.69	264.87	265.21	265.54	265.83	265.91	265.83	265.54	265.21	264.87	264.69	264.65	G 27.0	262.16
G 27.0	262.16	262.24	262.45	262.85	263.26	263.59	263.68	263.59	263.26	262.85	262.45	262.24	262.16	G 28.0	259.60
G 28.0	259.60	259.69	259.95	260.41	260.89	261.29	261.41	261.29	260.89	260.41	259.95	259.69	259.60	G 29.0	256.97
G 29.0	256.97	257.06	257.36	257.90	258.50	258.94	259.07	258.94	258.50	257.90	257.36	257.06	256.97	G 30.0	254.23
G 30.0	254.23	254.33	254.68	255.30	256.01	256.51	256.66	256.51	256.01	255.30	254.68	254.33	254.23	G 31.0	251.44
G 31.0	251.44	251.55	251.96	252.66	253.47	254.06	254.24	254.06	253.47	252.66	251.96	251.55	251.44	G 32.0	248.49
G 32.0	248.49	248.60	249.08	249.90	250.83	251.51	251.74	251.51	250.83	249.90	249.08	248.60	248.49	G 33.0	245.55
G 33.0	245.55	245.70	246.21	247.15	248.20	248.96	249.21	248.96	248.20	247.15	246.21	245.70	245.55	G 34.0	242.43
G 34.0	242.43	242.55	243.15	244.23	245.43	246.34	246.63	246.34	245.43	244.23	243.15	242.55	242.43	G 35.0	239.23
G 35.0	239.23	239.43	240.08	241.28	242.64	243.67	244.01	243.67	242.64	241.28	240.08	239.43	239.23	G 36.0	235.95
G 36.0	235.95	236.16	236.89	238.23	239.77	240.93	241.29	240.93	239.77	238.23	236.89	236.16	235.95	G 37.0	232.63
G 37.0	232.63	232.86	233.65	235.15	236.88	238.16	238.58	238.16	236.88	235.15	233.65	232.86	232.63	G 38.0	229.21
G 38.0	229.21	229.47	230.35	232.02	233.95	235.36	235.84	235.36	233.95	232.02	230.35	229.47	229.21	G 39.0	225.71
G 39.0	225.71	225.98	226.96	228.80	230.97	232.53	233.03	232.53	230.97	228.80	226.96	225.98	225.71	G 40.0	222.16
G 40.0	222.16	222.48	223.55	225.60	227.96	229.71	230.26	229.71	227.96	225.60	223.55	222.48	222.16	G 41.0	218.48
G 41.0	218.48	218.81	220.00	222.27	224.89	226.80	227.41	226.80	224.89	222.27	220.00	218.81	218.48	G 42.0	214.76
G 42.0	214.76	215.16	216.47	218.93	221.80	223.87	224.54	223.87	221.80	218.93	216.47	215.16	214.76	G 43.0	210.93
G 43.0	210.93	211.33	212.79	215.50	218.65	220.93	221.68	220.93	218.65	215.50	212.79	211.33	210.93	G 44.0	207.08
G 44.0	207.08	207.55	209.13	212.10	215.52	217.98	218.77	217.98	215.52	212.10	209.13	207.55	207.08	G 45.0	203.12
G 45.0	203.12	203.60	205.36	208.60	212.32	214.94	215.78	214.94	212.32	208.60	205.36	203.60	203.12	G 46.0	199.09
G 46.0	199.09	199.64	201.56	205.11	209.12	211.92	212.83	211.92	209.12	205.11	201.56	199.64	199.09	G 47.0	194.99
G 47.0	194.99	195.59	197.70	201.56	205.88	208.89	209.85	208.89	205.88	201.56	197.70	195.59	194.99	G 48.0	190.79
G 48.0	190.79	191.44	193.76	197.96	202.60	205.81	206.83	205.81	202.60	197.96	193.76	191.44	190.79	G 49.0	186.54
G 49.0	186.54	187.27	189.80	194.35	199.29	202.72	203.82	202.72	199.29	194.35	189.80	187.27	186.54	G 50.0	182.19
G 50.0	182.19	182.97	185.76	190.68	195.96	199.58	200.77	199.58	195.96	190.68	185.76	182.97	182.19	G 51.0	177.86
G 51.0	177.86	178.71	181.76	187.03	192.64	196.45	197.71	196.45	192.64	187.03	181.76	178.71	177.86	G 52.0	173.36
G 52.0	173.36	174.29	177.63	183.31	189.26	193.32	194.64	193.32	189.26	183.31	177.63	174.29	173.36	G 53.0	168.88
G 53.0	168.88	169.92	173.56	179.62	185.90	190.20	191.59	190.20	185.90	179.62	173.56	169.92	168.88	G 54.0	164.27
G 54.0	164.27	165.38	169.38	175.87	182.50	187.04	188.50	187.04	182.50	175.87	169.38	165.38	164.27	G 55.0	159.65
G 55.0	159.65	160.88	165.21	172.14	179.12	183.91	185.45	183.91	179.12	172.14	165.21	160.88	159.65	G 56.0	154.91
G 56.0	154.91	156.28	160.98	168.36	175.70	180.74	182.39	180.74	175.70</						

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Luminaire Flux	403 lm		Luminaire Power		13.3 W		Efficacy		30.301 lm/W		Efficiency		100.00%	
Source Flux	403 lm		Maximum value		295.92 cd/klm		Position		C=90.00 G=0.00		CG Asymmetrical			
Luminous Intensity Table cd/klm Table 2/4														
	C 195.00	C 210.00	C 225.00	C 240.00	C 255.00	C 270.00	C 285.00	C 300.00	C 315.00	C 330.00	C 345.00			
G 0.0	295.53	295.54	295.54	295.69	295.80	295.92	295.80	295.69	295.54	295.54	295.53			
G 1.0	295.51	295.51	295.54	295.60	295.79	295.83	295.79	295.60	295.54	295.51	295.51			
G 2.0	295.36	295.38	295.37	295.45	295.59	295.64	295.59	295.45	295.37	295.38	295.36			
G 3.0	295.15	295.14	295.15	295.26	295.38	295.40	295.38	295.26	295.15	295.14	295.15			
G 4.0	294.84	294.81	294.84	294.94	295.04	295.08	295.04	294.94	294.84	294.81	294.84			
G 5.0	294.43	294.42	294.44	294.50	294.66	294.67	294.66	294.50	294.44	294.42	294.43			
G 6.0	293.95	293.93	293.93	294.03	294.14	294.17	294.14	294.03	293.93	293.93	293.95			
G 7.0	293.36	293.34	293.33	293.41	293.52	293.56	293.52	293.41	293.33	293.34	293.36			
G 8.0	292.69	292.68	292.66	292.73	292.83	292.87	292.83	292.73	292.66	292.68	292.69			
G 9.0	291.95	291.92	291.91	291.97	292.06	292.08	292.06	291.97	291.91	291.92	291.95			
G 10.0	291.07	291.05	291.04	291.11	291.20	291.23	291.20	291.11	291.04	291.05	291.07			
G 11.0	290.14	290.13	290.08	290.15	290.23	290.26	290.23	290.15	290.08	290.13	290.14			
G 12.0	289.10	289.08	289.05	289.09	289.16	289.18	289.16	289.09	289.05	289.08	289.10			
G 13.0	287.97	287.94	287.93	287.97	288.06	288.08	288.06	287.97	287.93	287.94	287.97			
G 14.0	286.73	286.69	286.68	286.75	286.82	286.84	286.82	286.75	286.68	286.69	286.73			
G 15.0	285.45	285.42	285.40	285.45	285.51	285.53	285.51	285.45	285.40	285.42	285.45			
G 16.0	283.98	283.96	283.97	284.04	284.11	284.13	284.11	284.04	283.97	283.96	283.98			
G 17.0	282.52	282.50	282.49	282.56	282.64	282.67	282.64	282.56	282.49	282.50	282.52			
G 18.0	280.90	280.89	280.92	280.99	281.07	281.09	281.07	280.99	280.92	280.89	280.90			
G 19.0	279.21	279.21	279.26	279.35	279.45	279.46	279.45	279.35	279.26	279.21	279.21			
G 20.0	277.43	277.44	277.52	277.63	277.72	277.75	277.72	277.63	277.52	277.44	277.43			
G 21.0	275.51	275.55	275.65	275.78	275.89	275.91	275.89	275.78	275.65	275.55	275.51			
G 22.0	273.56	273.61	273.74	273.90	274.03	274.05	274.03	273.90	273.74	273.61	273.56			
G 23.0	271.44	271.51	271.69	271.90	272.05	272.11	272.05	271.90	271.69	271.51	271.44			
G 24.0	269.32	269.44	269.63	269.87	270.04	270.09	270.04	269.87	269.63	269.44	269.32			
G 25.0	267.01	267.17	267.43	267.71	267.96	268.02	267.96	267.71	267.43	267.17	267.01			
G 26.0	264.69	264.87	265.21	265.54	265.83	265.91	265.83	265.54	265.21	264.87	264.69			
G 27.0	262.24	262.45	262.85	263.26	263.59	263.68	263.59	263.26	262.85	262.45	262.24			
G 28.0	259.69	259.95	260.41	260.89	261.29	261.41	261.29	260.89	260.41	259.95	259.69			
G 29.0	257.06	257.36	257.90	258.50	258.94	259.07	258.94	258.50	257.90	257.36	257.06			
G 30.0	254.33	254.68	255.30	256.01	256.51	256.66	256.51	256.01	255.30	254.68	254.33			
G 31.0	251.55	251.96	252.66	253.47	254.06	254.24	254.06	253.47	252.66	251.96	251.55			
G 32.0	248.60	249.08	249.90	250.83	251.51	251.74	251.51	250.83	249.90	249.08	248.60			
G 33.0	245.70	246.21	247.15	248.20	248.96	249.21	248.96	248.20	247.15	246.21	245.70			
G 34.0	242.55	243.15	244.23	245.43	246.34	246.63	246.34	245.43	244.23	243.15	242.55			
G 35.0	239.43	240.08	241.28	242.64	243.67	244.01	243.67	242.64	241.28	240.08	239.43			
G 36.0	236.16	236.89	238.23	239.77	240.93	241.29	240.93	239.77	238.23	236.89	236.16			
G 37.0	232.86	233.65	235.15	236.88	238.16	238.58	238.16	236.88	235.15	233.65	232.86			
G 38.0	229.47	230.35	232.02	233.95	235.84	236.36	235.84	233.95	232.02	230.35	229.47			
G 39.0	225.98	226.96	228.80	230.97	232.53	233.03	232.53	230.97	228.80	226.96	225.98			
G 40.0	222.48	223.55	225.60	227.96	229.71	230.26	229.71	227.96	225.60	223.55	222.48			
G 41.0	218.81	220.00	222.27	224.89	226.80	227.41	226.80	224.89	222.27	220.00	218.81			
G 42.0	215.16	216.47	218.93	221.80	223.87	224.54	223.87	221.80	218.93	216.47	215.16			
G 43.0	211.33	212.79	215.50	218.65	220.93	221.68	220.93	218.65	215.50	212.79	211.33			
G 44.0	207.55	209.13	212.10	215.52	217.98	218.77	217.98	215.52	212.10	209.13	207.55			
G 45.0	203.60	205.36	208.60	212.32	214.94	215.78	214.94	212.32	208.60	205.36	203.60			
G 46.0	199.64	201.56	205.11	209.12	211.92	212.83	211.92	209.12	205.11	201.56	199.64			
G 47.0	195.59	197.70	201.56	205.88	208.89	209.85	208.89	205.88	201.56	197.70	195.59			
G 48.0	191.44	193.76	197.96	202.60	205.81	206.83	205.81	202.60	197.96	193.76	191.44			
G 49.0	187.27	189.80	194.35	199.29	202.72	203.82	202.72	199.29	194.35	189.80	187.27			
G 50.0	182.97	185.76	190.68	195.96	199.58	200.77	199.58	195.96	190.68	185.76	182.97			
G 51.0	178.71	181.76	187.03	192.64	196.45	197.71	196.45	192.64	187.03	181.76	178.71			
G 52.0	174.29	177.63	183.31	189.26	193.32	194.64	193.32	189.26	183.31	177.63	174.29			
G 53.0	169.92	173.56	179.62	185.90	190.20	191.59	190.20	185.90	179.62	173.56	169.92			
G 54.0	165.38	169.38	175.87	182.50	187.04	188.50	187.04	182.50	175.87	169.38	165.38			
G 55.0	160.88	165.21	172.14	179.12	183.91	185.45	183.91	179.12	172.14	165.21	160.88			
G 56.0	156.28	160.98	168.36	175.70	180.74	182.39	180.74	175.70	168.36	160.98	156.28			
G 57.0	151.62	156.78	164.57	172.32	177.63	179.31	177.63	172.32	164.57	156.78	151.62			
G 58.0	146.99	152.56	160.81	168.95	174.52	176.29	174.52	168.95	160.81	152.56	146.99			
G 59.0	142.22	148.28	157.01	165.58	171.37	173.24	171.37	165.58	157.01	148.28	142.22			
G 60.0	137.52	144.06	153.27	162.24	168.26	170.17	168.26	162.24	153.27	144.06	137.52			
G 61.0	132.68	139.76	149.48	158.87	165.12	167.09	165.12	158.87	149.48	139.76	132.68			
G 62.0	127.89	135.53	145.77	155.57	162.00	164.03	162.00	155.57	145.77	135.53	127.89			
G 63.0	122.98	131.19	142.00	152.20	158.82	160.90	158.82	152.20	142.00	131.19	122.98			
G 64.0	118.14	126.94	138.31	148.88	155.67	157.82	155.67	148.88	138.31	126.94	118.14			
G 65.0	113.26	122.67	134.63	145.55	152.53	154.74	152.53	145.55	134.63	122.67	113.26			
G 66.0	108.36	118.43	130.96	142.20	149.37	151.60	149.37	142.20	130.96	118.43	108.36			
G 67.0	103.54	114.23	127.32	138.89	146.22	148.52	146.22	138.89	127.32	114.23	103.54			
G 68.0	98.63	110.02	123.66	135.55	143.06	145.46	143.06	135.55	123.66	110.02	98.63			
G 69.0	93.84	105.93	120.09	132.25	139.96	142.37	139.96	132.25	120.09	105.93	93.84			
G 70.0	88.95	101.81	116.45	128.91	136.81	139.28	136.81	128.91	116.45	101.81	88.95			
G 71.0	84.20	97.82	112.90	125.62	133.69	136.25	133.69	125.62	112.90	97.82	84.20			
G 72.0	79.42	93.84	109.36	122.36	130.59	133.16	130.59	122.36	109.36	93.84	79.42			

Luminaire

Code 10-8102-05-M1
Name TUBS

Measurem.

Code 10-8102-05-M1
Name TUBS

Luminaire Flux	403 lm		Luminaire Power		13.3 W		Efficacy		30.301 lm/W		Efficiency		100.00%	
Source Flux	403 lm		Maximum value		295.92 cd/klm		Position		C=90.00 G=0.00		CG		Asymmetrical	
Luminous Intensity Table cd/klm														
Table 3/4														
	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00	C 105.00	C 120.00	C 135.00	C 150.00	C 165.00	C 180.00	
G 73.0	68.39	74.77	89.96	105.87	119.12	127.52	130.15	127.52	119.12	105.87	89.96	74.77	68.39	
G 74.0	63.19	70.10	86.10	102.42	115.93	124.43	127.14	124.43	115.93	102.42	86.10	70.10	63.19	
G 75.0	58.08	65.53	82.30	99.00	112.75	121.38	124.09	121.38	112.75	99.00	82.30	65.53	58.08	
G 76.0	53.06	61.08	78.57	95.67	109.63	118.36	121.11	118.36	109.63	95.67	78.57	61.08	53.06	
G 77.0	48.08	56.66	74.85	92.31	106.49	115.34	118.15	115.34	106.49	92.31	74.85	56.66	48.08	
G 78.0	43.18	52.46	71.24	89.07	103.42	112.40	115.21	112.40	103.42	89.07	71.24	52.46	43.18	
G 79.0	38.37	48.34	67.72	85.86	100.39	109.46	112.32	109.46	100.39	85.86	67.72	48.34	38.37	
G 80.0	33.75	44.44	64.28	82.71	97.41	106.54	109.44	106.54	97.41	82.71	64.28	44.44	33.75	
G 81.0	29.27	40.67	60.94	79.61	94.44	103.64	106.52	103.64	94.44	79.61	60.94	40.67	29.27	
G 82.0	24.91	37.12	57.71	76.60	91.53	100.77	103.72	100.77	91.53	76.60	57.71	37.12	24.91	
G 83.0	20.73	33.61	54.59	73.60	88.63	97.93	100.90	97.93	88.63	73.60	54.59	33.61	20.73	
G 84.0	16.74	30.35	51.55	70.66	85.76	95.14	98.08	95.14	85.76	70.66	51.55	30.35	16.74	
G 85.0	13.02	27.30	48.66	67.80	82.98	92.36	95.34	92.36	82.98	67.80	48.66	27.30	13.02	
G 86.0	9.61	24.43	45.87	64.99	80.21	89.61	92.62	89.61	80.21	64.99	45.87	24.43	9.61	
G 87.0	6.36	21.82	43.18	62.29	77.50	86.91	89.91	86.91	77.50	62.29	43.18	21.82	6.36	
G 88.0	3.90	19.39	40.58	59.60	74.79	84.18	87.26	84.18	74.79	59.60	40.58	19.39	3.90	
G 89.0	1.86	17.20	37.81	56.47	71.49	81.04	84.13	81.04	71.49	56.47	37.81	17.20	1.86	
G 90.0	0.62	15.21	34.79	52.42	67.38	76.92	79.99	76.92	67.38	52.42	34.79	15.21	0.62	

Luminaire

Code 10-8102-05-M1
Name TUBS

Measurem.

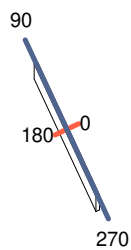
Code 10-8102-05-M1
Name TUBS

Luminaire Flux	403 lm	Luminaire Power		13.3 W		Efficacy		30.301 lm/W		Efficiency		100.00%
Source Flux	403 lm	Maximum value		295.92 cd/klm		Position		C=90.00 G=0.00		CG		Asymmetrical
Luminous Intensity Table cd/klm												
Table 4/4												
	C 195.00	C 210.00	C 225.00	C 240.00	C 255.00	C 270.00	C 285.00	C 300.00	C 315.00	C 330.00	C 345.00	
G 73.0	74.77	89.96	105.87	119.12	127.52	130.15	127.52	119.12	105.87	89.96	74.77	
G 74.0	70.10	86.10	102.42	115.93	124.43	127.14	124.43	115.93	102.42	86.10	70.10	
G 75.0	65.53	82.30	99.00	112.75	121.38	124.09	121.38	112.75	99.00	82.30	65.53	
G 76.0	61.08	78.57	95.67	109.63	118.36	121.11	118.36	109.63	95.67	78.57	61.08	
G 77.0	56.66	74.85	92.31	106.49	115.34	118.15	115.34	106.49	92.31	74.85	56.66	
G 78.0	52.46	71.24	89.07	103.42	112.40	115.21	112.40	103.42	89.07	71.24	52.46	
G 79.0	48.34	67.72	85.86	100.39	109.46	112.32	109.46	100.39	85.86	67.72	48.34	
G 80.0	44.44	64.28	82.71	97.41	106.54	109.44	106.54	97.41	82.71	64.28	44.44	
G 81.0	40.67	60.94	79.61	94.44	103.64	106.52	103.64	94.44	79.61	60.94	40.67	
G 82.0	37.12	57.71	76.60	91.53	100.77	103.72	100.77	91.53	76.60	57.71	37.12	
G 83.0	33.61	54.59	73.60	88.63	97.93	100.90	97.93	88.63	73.60	54.59	33.61	
G 84.0	30.35	51.55	70.66	85.76	95.14	98.08	95.14	85.76	70.66	51.55	30.35	
G 85.0	27.30	48.66	67.80	82.98	92.36	95.34	92.36	82.98	67.80	48.66	27.30	
G 86.0	24.43	45.87	64.99	80.21	89.61	92.62	89.61	80.21	64.99	45.87	24.43	
G 87.0	21.82	43.18	62.29	77.50	86.91	89.91	86.91	77.50	62.29	43.18	21.82	
G 88.0	19.39	40.58	59.60	74.79	84.18	87.26	84.18	74.79	59.60	40.58	19.39	
G 89.0	17.20	37.81	56.47	71.49	81.04	84.13	81.04	71.49	56.47	37.81	17.20	
G 90.0	15.21	34.79	52.42	67.38	76.92	79.99	76.92	67.38	52.42	34.79	15.21	

Luminaire
Code 10-8102-05-M1
Name TUBS
Measurem.
Code 10-8102-05-M1
Name TUBS

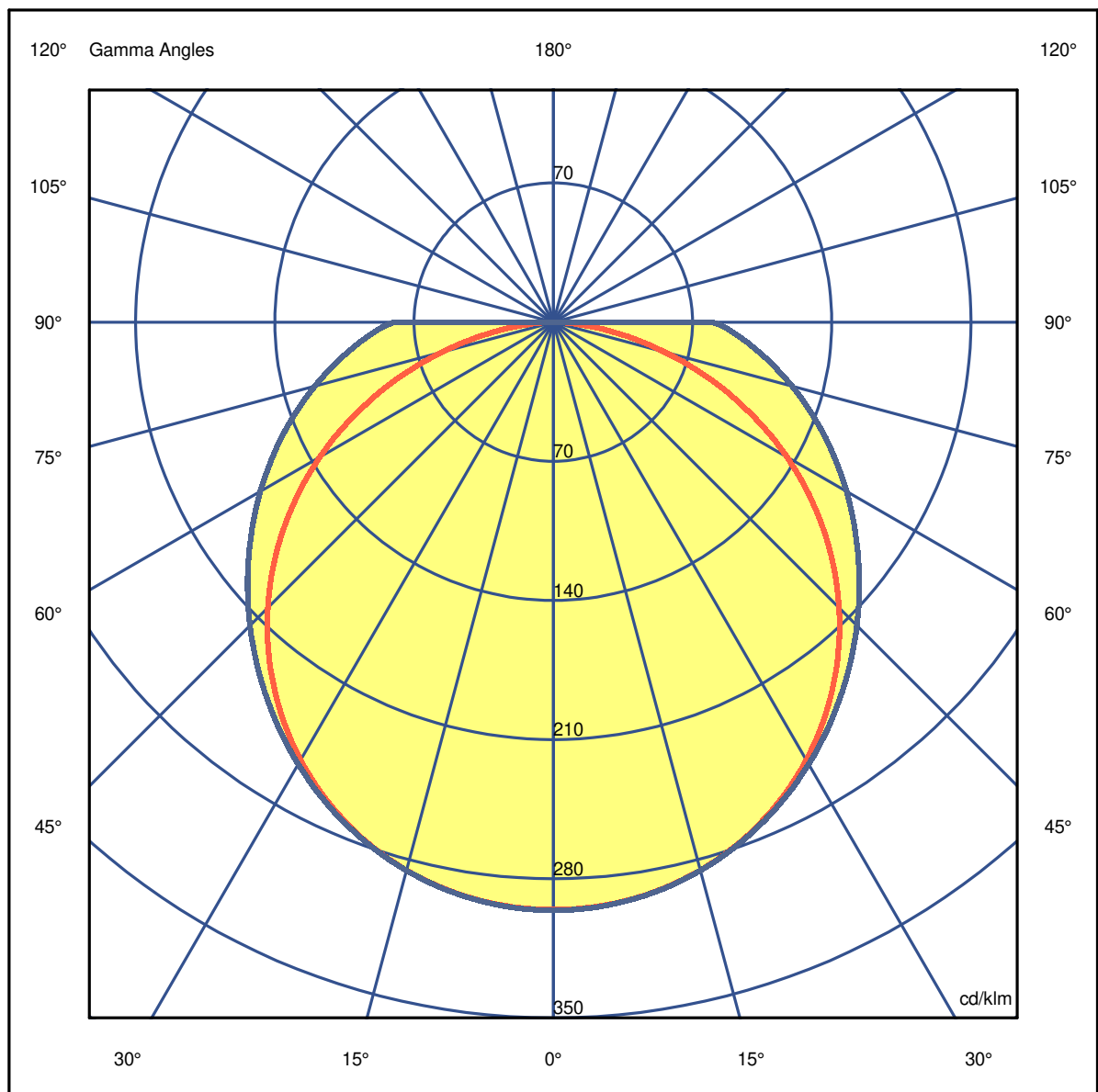
Luminaire Flux	403 lm	Luminaire Power	13.3 W	Efficacy	30.301 lm/W	Efficiency	100.00%
Source Flux	403 lm	Maximum value	295.92 cd/klm	Position	C=90.00 G=0.00	CG	Asymmetrical

600mm x 16mm

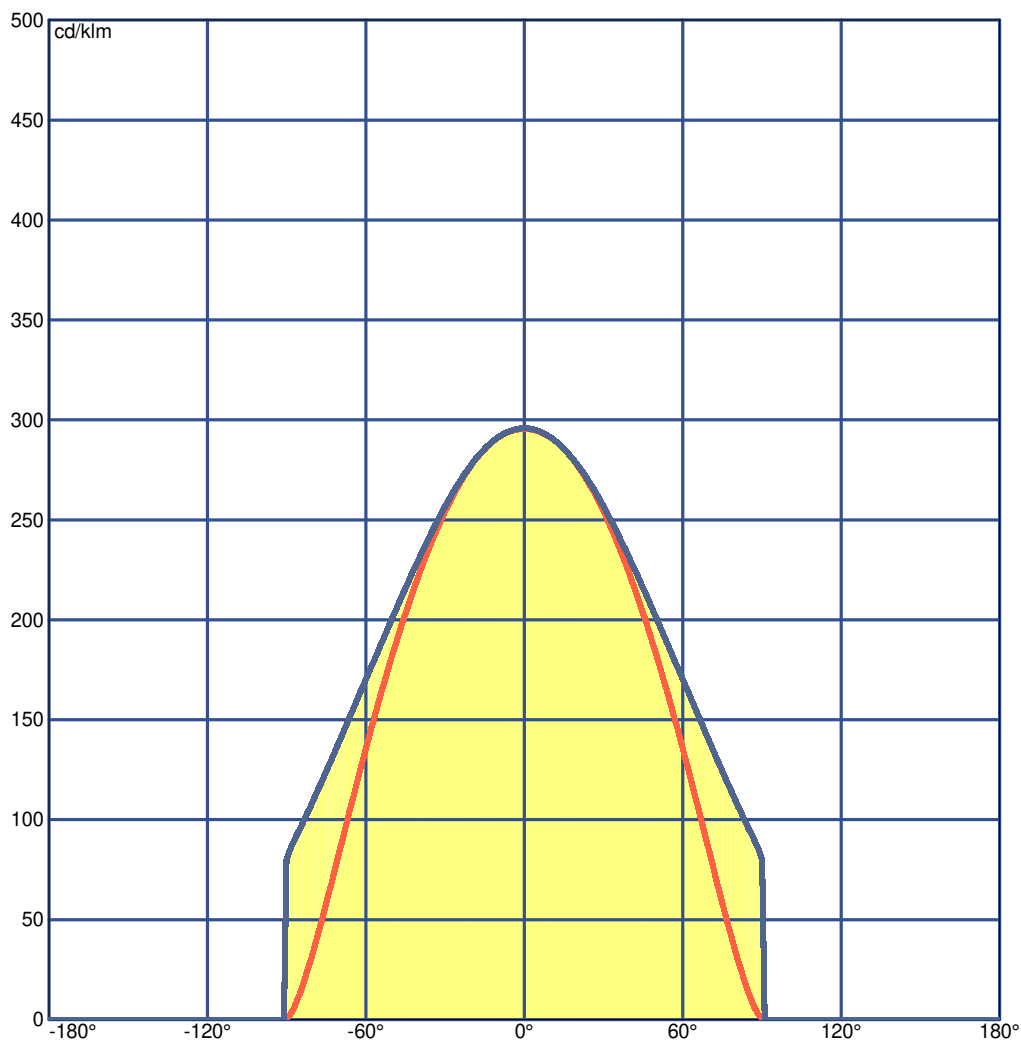


C Halfplanes

180.0 — 0.0
270.0 — 90.0



Luminaire							
Code	10-8102-05-M1						
Name	TUBS						
Measurem.							
Code	10-8102-05-M1						
Name	TUBS						
Luminaire Flux	403 lm	Luminaire Power	13.3 W	Efficacy	30.301 lm/W	Efficiency	100.00%
Source Flux	403 lm	Maximum value	295.92 cd/klm	Position	C=90.00 G=0.00	CG	Asymmetrical



Luminaire

Code 10-8102-05-M1
Name TUBS

Measurement

Code 10-8102-05-M1
Name TUBS

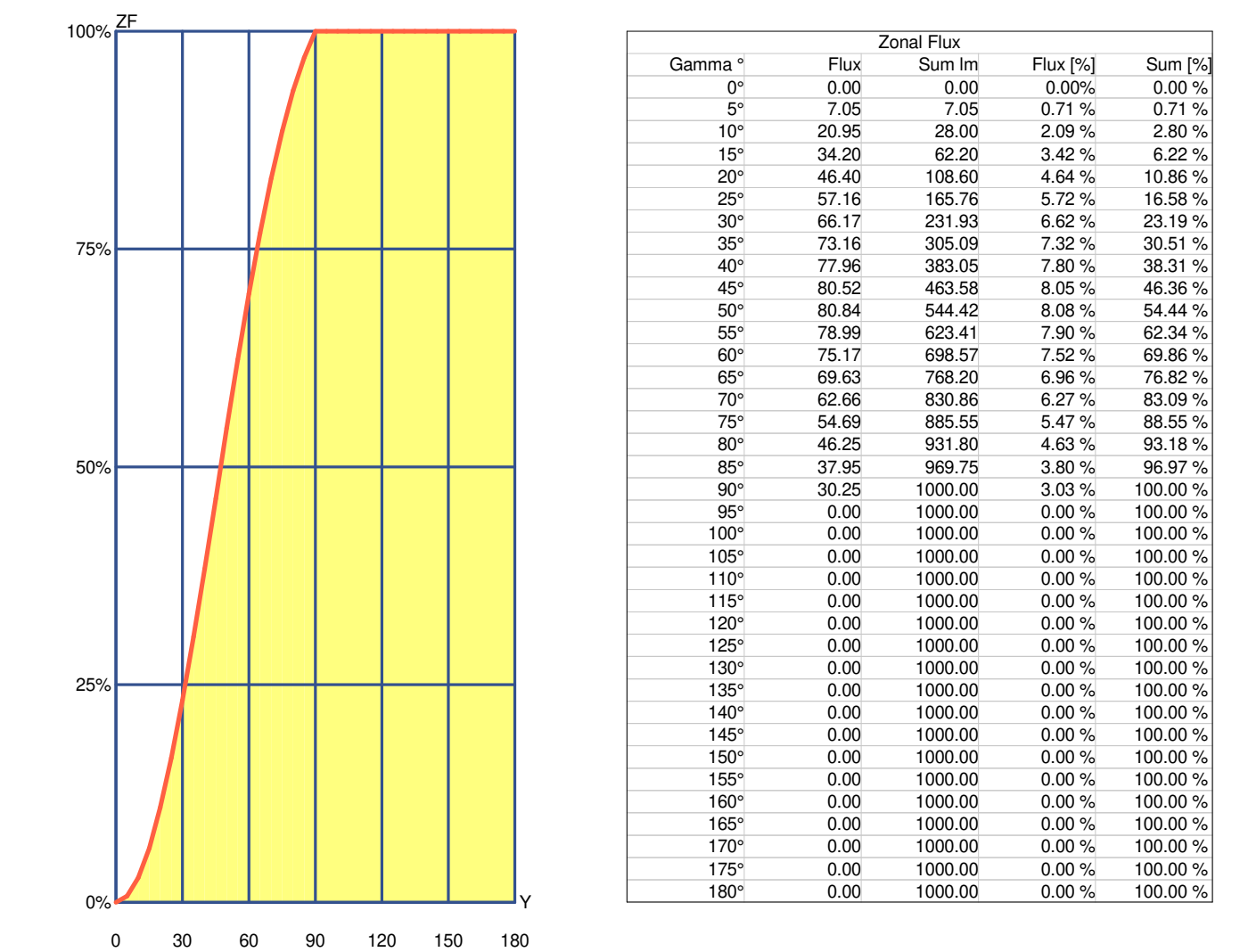
Luminaire Flux	403 lm	Luminaire Power	13.3 W	Efficacy	30.301 lm/W	Efficiency	100.00%
Source Flux	403 lm	Maximum value	295.92 cd/klm	Position	C=90.00 G=0.00	CG	Asymmetrical

UGR
S = 0.250

Reflectancies										
Ceiling/Cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Working Plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room Dimensions	Lateral View					Viewed Endwise				
x=2H y=2H	19.6	21.1	19.9	21.3	21.6	21.4	22.8	21.7	23.0	23.3
x=2H y=3H	20.9	22.3	21.3	22.5	22.8	23.8	25.1	24.1	25.4	25.7
x=2H y=4H	21.4	22.7	21.8	22.9	23.2	25.1	26.3	25.4	26.6	26.9
x=2H y=6H	21.7	22.8	22.0	23.2	23.5	26.5	27.7	26.9	28.0	28.3
x=2H y=8H	21.7	22.9	22.1	23.2	23.5	27.3	28.4	27.6	28.7	29.0
x=2H y=12H	21.7	22.8	22.1	23.2	23.5	28.1	29.2	28.5	29.5	29.9
x=4H y=2H	20.6	21.8	20.9	22.1	22.4	21.9	23.2	22.2	23.4	23.7
x=4H y=3H	22.1	23.2	22.5	23.5	23.9	24.5	25.6	24.9	26.0	26.3
x=4H y=4H	22.7	23.7	23.1	24.1	24.4	26.0	27.0	26.4	27.4	27.7
x=4H y=6H	23.1	24.0	23.6	24.4	24.8	27.6	28.5	28.0	28.9	29.3
x=4H y=8H	23.2	24.1	23.7	24.4	24.9	28.5	29.3	28.9	29.7	30.1
x=4H y=12H	23.3	24.0	23.7	24.4	24.9	29.5	30.2	29.9	30.6	31.1
x=8H y=4H	23.5	24.3	23.9	24.7	25.1	26.3	27.1	26.7	27.5	27.9
x=8H y=6H	24.1	24.8	24.6	25.2	25.7	28.1	28.8	28.5	29.2	29.6
x=8H y=8H	24.3	24.9	24.8	25.4	25.9	29.1	29.7	29.6	30.2	30.6
x=8H y=12H	24.5	25.0	25.0	25.5	26.0	30.3	30.8	30.8	31.3	31.8
x=12H y=4H	23.7	24.4	24.1	24.8	25.3	26.3	27.0	26.7	27.4	27.9
x=12H y=6H	24.5	25.1	24.9	25.5	26.0	28.1	28.7	28.6	29.2	29.7
x=12H y=8H	24.8	25.3	25.3	25.8	26.3	29.2	29.8	29.7	30.2	30.7

Luminaire							
Code	10-8102-05-M1						
Name	TUBS						
Measur.							
Code	10-8102-05-M1						
Name	TUBS						
Luminaire Flux	403 lm	Luminaire Power	13.3 W	Efficacy	30.301 lm/W	Efficiency	100.00%
Source Flux	403 lm	Maximum value	295.92 cd/klm	Position	C=90.00 G=0.00	CG	Asymmetrical

Total Flux=403.00 Luminaire Flux=403.00																		
RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00						
DRR	0.26	0.34	0.41	0.47	0.53	0.61	0.67	0.71	0.77	0.80	0.89	0.94						
RC	6	6	6	6	6	6	6	7	7	7	7	7						
Zonal Flux per 1000 Lumen																		
Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	28	109	232	383	544	699	831	932	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
CIE Flux Codes																		
41 70 89 100 100																		
C.I.E.				6/6/6/6/6/6/7/7/7/7								LOR		100.00000 %				
D DIN 5040				A30								ULOR		0.00000 %				
F UTE				1.00 G								DLOR		100.00000 %				
B NBN				BZ 5								UFF		0.00000 %				
RN				0.00000 %								DFF		100.00000 %				
BLF				1.0								FFR		0.00000 %				



Luminaire

Code 10-8102-05-M1
Name TUBS

Measurem.

Code 10-8102-05-M1
Name TUBS

Luminaire Flux	403 lm	Luminaire Power	13.3 W	Efficacy	30.301 lm/W	Efficiency	100.00%
Source Flux	403 lm	Maximum value	295.92 cd/klm	Position	C=90.00 G=0.00	CG Asymmetrical	

Utilizations CIE

Mounting	Direct				Normalization			Normalised			Suspension Ratid/3								Standard CIE Settings							
Ceiling																										
K	8873	8773	8871	8771	7773	7771	7753	7553	7751	7551	7731	7331	7711	7111	5551	5531	5331	5511	5111	3331	3311	1111	0000			
0.60	223	200	180	162	191	155	113	96	91	78	48	36	17	12	73	39	34	14	11	32	12	10	0			
0.80	260	238	194	179	226	171	142	125	105	93	58	46	23	17	87	49	44	19	16	42	17	15	0			
1.00	284	264	198	186	251	178	166	148	114	102	66	54	29	22	96	56	51	25	21	49	22	19	0			
1.25	305	287	198	188	273	180	189	172	119	109	72	62	35	28	103	63	59	31	27	56	27	25	0			
1.50	320	304	195	186	289	179	208	192	123	114	77	67	40	33	107	68	64	36	32	61	33	30	0			
2.00	338	325	185	179	310	173	237	222	125	117	84	75	50	43	111	76	72	45	41	69	41	38	0			
2.50	350	339	177	172	323	167	257	243	125	119	88	81	57	50	113	81	77	52	48	74	48	45	0			
3.00	358	348	170	166	332	162	273	260	124	119	91	85	62	56	114	84	81	58	54	78	54	51	0			
4.00	368	360	160	158	345	154	294	284	123	119	95	90	70	65	115	89	87	66	63	84	63	59	0			
5.00	374	368	153	152	352	148	309	299	122	119	98	94	76	71	115	92	90	72	69	88	68	65	0			
10.00	387	383	136	135	368	133	341	336	118	116	103	101	89	86	113	99	98	86	84	95	83	80	0			
20.00	392	390	125	124	375	122	360	357	114	113	106	104	98	96	110	102	102	95	94	99	92	90	0			

Wall

K	8873	8773	8871	8771	7773	7771	7753	7553	7751	7551	7731	7331	7711	7111	5551	5531	5331	5511	5111	3331	3311	1111	0000
0.60	487	475	432	423	469	419	369	361	338	332	283	279	244	242	329	279	278	243	242	277	242	241	221
0.80	556	543	481	472	534	466	434	425	389	383	334	328	292	290	378	328	326	290	289	325	289	288	265
1.00	605	592	512	505	580	497	484	473	425	419	371	365	329	326	413	365	363	327	325	360	325	324	297
1.25	650	638	540	533	623	525	532	521	459	453	407	401	366	362	445	400	398	363	361	394	361	359	329
1.50	685	674	560	554	657	546	571	560	485	479	436	430	396	392	471	428	426	392	390	422	389	387	355
2.00	729	719	581	576	699	568	623	612	516	511	473	467	436	432	501	464	461	431	429	456	427	424	388
2.50	759	750	595	591	729	583	660	650	538	533	499	494	465	461	523	489	487	460	457	481	455	451	412
3.00	781	773	605	602	750	593	688	679	553	550	519	514	488	483	539	509	507	481	479	500	476	471	430
4.00	819	812	626	624	787	616	735	726	583	580	553	549	526	522	568	542	541	519	516	533	512	506	463
5.00	848	842	645	643	816	635	770	763	606	604	580	577	557	553	592	569	568	548	546	560	541	534	489
10.00	929	926	702	701	896	693	868	863	676	675	660	657	644	641	662	648	647	634	632	637	625	616	566
20.00	993	991	752	752	960	744	944	941	734	734	724	723	715	713	721	712	712	704	703	701	693	683	631

Working Pl.

K	8873	8773	8871	8771	7773	7771	7753	7553	7751	7551	7731	7331	7711	7111	5551	5531	5331	5511	5111	3331	3311	1111	0000
0.60	562	549	524	515	541	508	420	412	404	398	334	329	283	281	394	330	328	282	281	327	281	280	262
0.80	666	651	613	603	639	594	516	505	492	484	419	412	363	361	478	412	410	361	360	407	359	358	339
1.00	748	732	681	672	716	661	595	583	563	555	490	483	433	430	546	481	479	430	428	475	427	426	406
1.25	826	810	744	735	790	723	674	661	632	624	561	553	504	499	613	550	547	500	497	542	496	493	474
1.50	885	870	790	782	846	769	736	722	684	676	616	608	561	555	663	604	601	555	552	595	550	546	527
2.00	971	958	856	849	930	835	832	817	762	755	702	693	650	644	740	687	684	642	639	676	636	630	612
2.50	1000	1000	897	892	985	878	897	883	814	808	759	752	712	706	791	744	741	703	699	731	695	688	670
3.00	1000	1000	926	922	1000	907	945	932	851	846	802	795	758	752	827	785	782	747	744	771	738	730	713
4.00	1000	1000	962	959	1000	944	1000	997	898	894	856	850	819	812	874	838	836	806	802	822	794	784	769
5.00	1000	1000	984	982	1000	967	1000	1000	928	924	891	886	858	852	903	872	870	844	840	855	831	819	804
10.00	1000	1000	1000	1000	1000	1000	1000	1000	993	991	971	967	950	945	969	950	948	932	929	930	915	900	887
20.00	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	996	995	985	984	975	967	949	937

LM53 SHR C0-C180: 1.274 SHR C90-C270: 1.286 SHR Square: 1.414

LedsC4

Luminaire

Code 10-8102-05-M1
Name TUBS

Measurem.

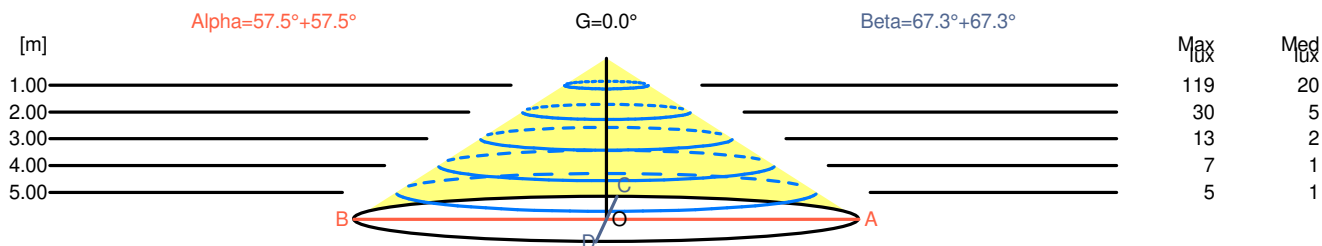
Code 10-8102-05-M1
Name TUBS

Luminaire Flux	403 lm	Luminaire Power	13.3 W	Efficacy	30.301 lm/W	Efficiency	100.00%
Source Flux	403 lm	Maximum value	295.92 cd/klm	Position	C=90.00 G=0.00	CG Asymmetrical	

Width at 50.00 % of Max Intensity

H[m]	1.00	2.00	3.00	4.00	5.00	H[m]	1.00	2.00	3.00	4.00	5.00
OA	1.57	3.14	4.71	6.28	7.85	OC	2.38	4.77	7.15	9.54	11.92
OB	1.57	3.14	4.71	6.28	7.85	OD	2.38	4.77	7.15	9.54	11.92

	Luminous Intensities [cd/klm]									
	0	5	15	25	35	45	55	65	75	85
OA	119.09	118.63	115.04	107.59	96.41	81.86	64.34	44.38	23.41	5.25
OB	119.09	118.63	115.04	107.59	96.41	81.86	64.34	44.38	23.41	5.25
OC	119.25	118.75	115.07	108.01	98.33	86.96	74.74	62.36	50.01	38.42
OD	119.25	118.75	115.07	108.01	98.33	86.96	74.74	62.36	50.01	38.42



H[m]	D[m]	Max lux	Med lux	Alpha=57.5°+57.5°	G=0.0
1.00	3.14	119	20		
2.00	6.28	30	5		
3.00	9.42	13	2		
4.00	12.56	7	1		
5.00	15.70	5	1		

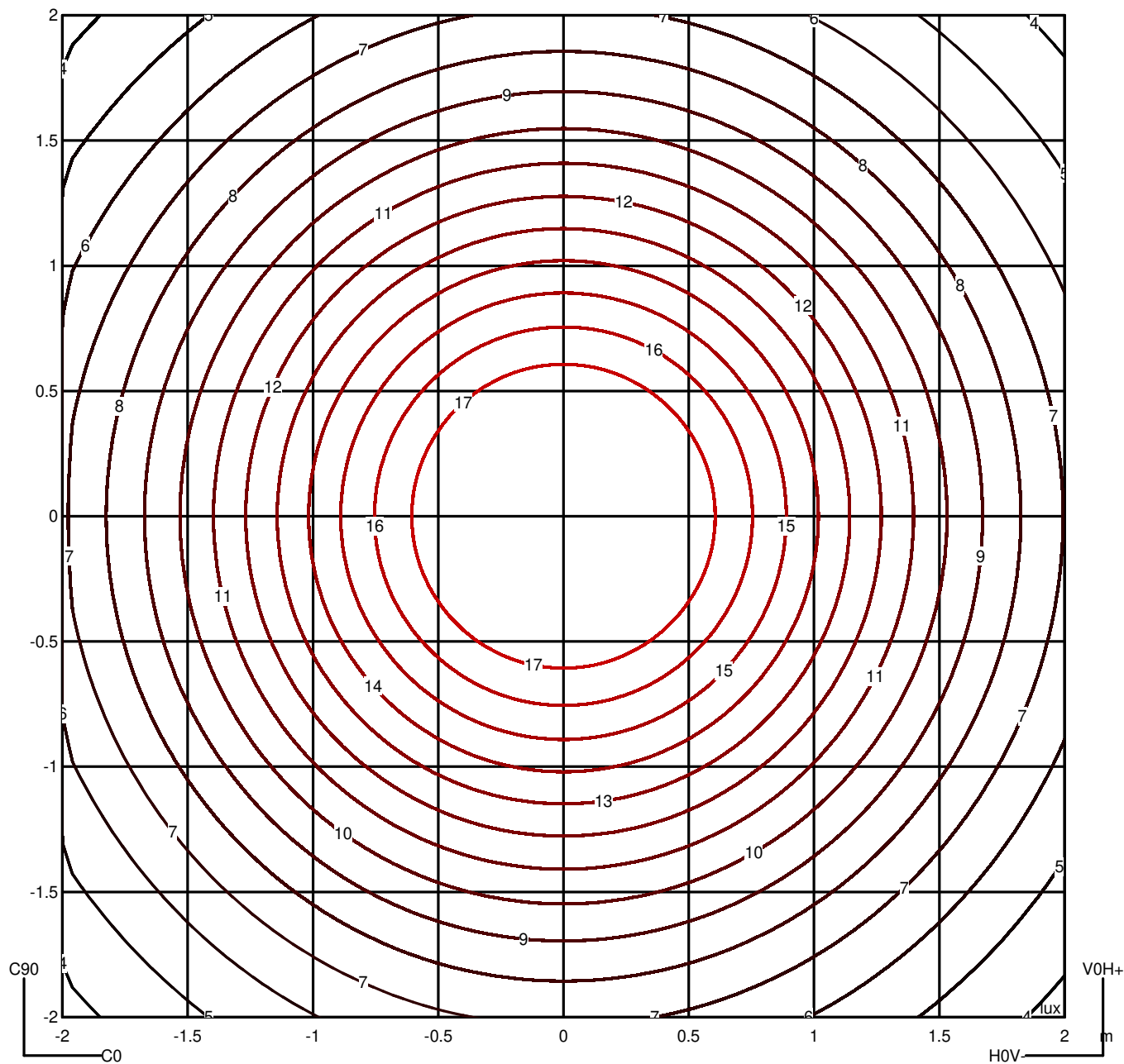
H[m]	D[m]	Max lux	Med lux	Beta=67.3°+67.3°	G=0.0
1.00	4.77	119	20		
2.00	9.54	30	5		
3.00	14.31	13	2		
4.00	19.08	7	1		
5.00	23.85	5	1		

Luminaire
Code 10-8102-05-M1
Name TUBS
Measurem.
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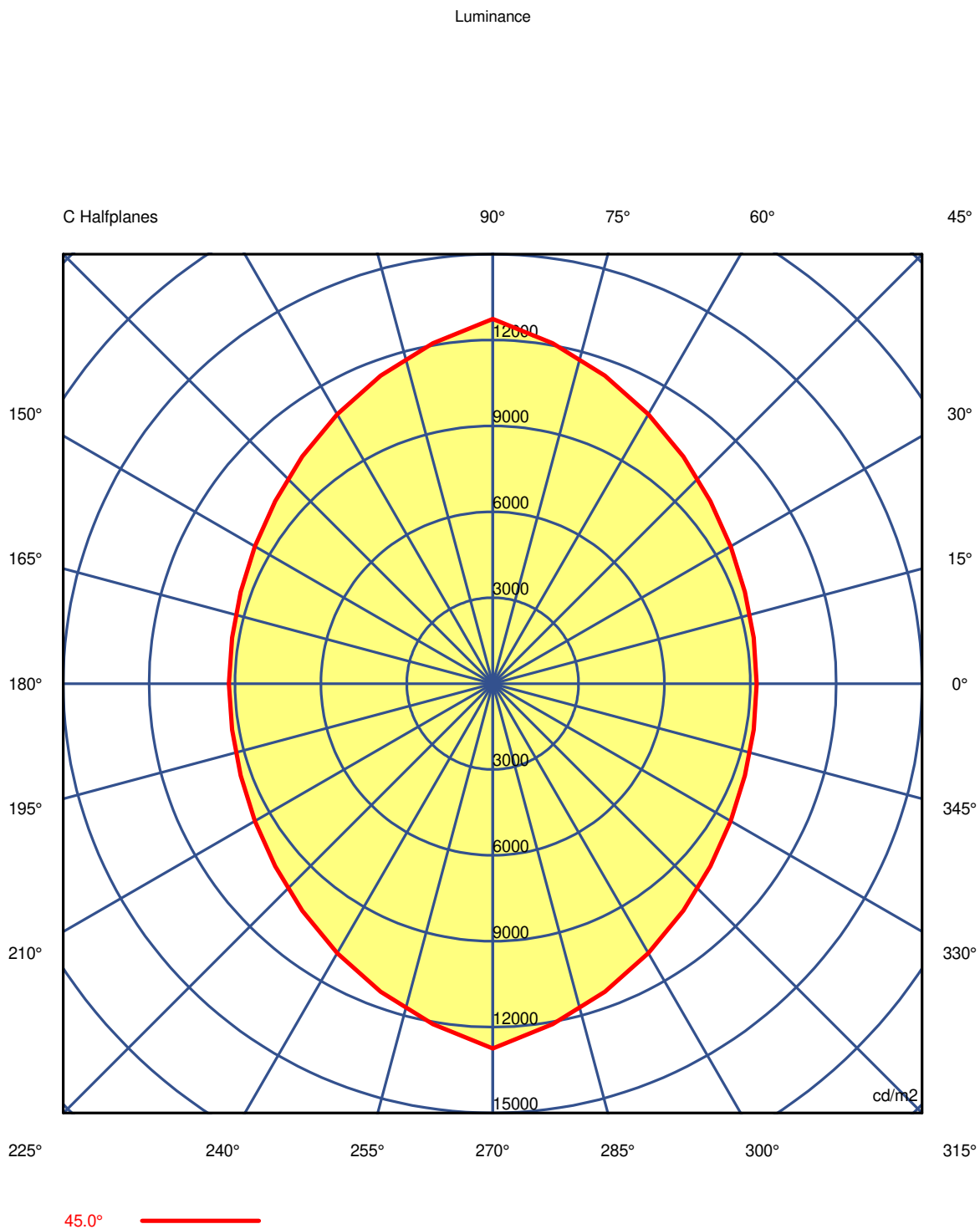
Luminaire Flux	403 lm	Luminaire Power	13.3 W	Efficacy	30.301 lm/W	Efficiency	100.00%
Source Flux	403 lm	Maximum value	295.92 cd/klm	Position	C=90.00 G=0.00	CG	Asymmetrical

Isolux (Floor)

Luminaire position X=0.00m Y=0.00m Z=2.50m



Luminaire							
Code	10-8102-05-M1						
Name	TUBS						
Measurem.							
Code	10-8102-05-M1						
Name	TUBS						
Luminaire Flux	403 lm	Luminaire Power	13.3 W	Efficacy	30.301 lm/W	Efficiency	100.00%
Source Flux	403 lm	Maximum value	295.92 cd/klm	Position	C=90.00 G=0.00	CG	Asymmetrical



Luminaire

Code 10-8102-05-M1
Name TUBS

Measurment

Code 10-8102-05-M1
Name TUBS

Luminaire Flux		403 lm		Luminaire Power		13.3 W		Efficacy		30.301 lm/W		Efficiency		100.00%	
Source Flux		403 lm		Maximum value		295.92 cd/klm		Position		C=90.00 G=0.00		CG Asymmetrical			
Luminance cd/m2														Table 1/3	
		C 0.00	C 10.00	C 20.00	C 30.00	C 40.00	C 50.00	C 60.00	C 70.00	C 80.00	C 90.00	C 100.00	C 110.00	C 120.00	
G 0.0	12446.95	12447.42	12448.03	12448.14	12447.99	12449.60	12454.31	12457.55	12461.21	12463.83	12461.21	12457.55	12454.31		
G 5.0	12115.14	12120.34	12133.81	12155.74	12187.43	12227.64	12276.10	12332.72	12390.71	12449.54	12391.25	12332.72	12276.10		
G 10.0	11798.84	11805.34	11830.21	11872.67	11932.49	12009.37	12101.70	12206.34	12319.44	12437.45	12319.44	12206.34	12101.70		
G 15.0	11485.38	11494.75	11530.60	11592.05	11679.06	11790.79	11924.92	12077.72	12245.18	12422.85	12245.18	12077.72	11924.92		
G 20.0	11164.20	11177.06	11223.92	11304.88	11420.30	11567.99	11745.03	11948.04	12172.11	12411.80	12172.11	11948.04	11745.03		
G 25.0	10828.93	10844.35	10903.20	11005.87	11151.31	11336.88	11560.02	11817.57	12102.18	12407.51	12102.18	11817.57	11560.02		
G 30.0	10474.76	10493.56	10564.88	10690.45	10869.59	11100.00	11377.14	11694.41	12045.16	12423.00	12045.16	11694.40	11377.14		
G 35.0	10092.66	10116.07	10201.06	10352.35	10571.54	10854.42	11194.65	11584.39	12013.40	12473.38	12013.41	11584.39	11194.65		
G 40.0	9677.57	9705.94	9806.53	9988.30	10255.88	10603.84	11022.11	11497.74	12017.29	12572.12	12017.30	11497.73	11022.11		
G 45.0	9218.33	9251.82	9372.81	9595.41	9924.64	10354.68	10870.07	11448.87	12076.82	12746.34	12076.82	11448.86	10870.07		
G 50.0	8698.88	8741.52	8890.81	9169.20	9582.23	10115.76	10746.87	11450.08	12212.11	13025.89	12212.12	11450.07	10746.87		
G 55.0	8105.76	8161.85	8354.07	8712.73	9233.44	9892.45	10663.71	11524.06	12457.16	13457.64	12457.17	11524.03	10663.71		
G 60.0	7409.22	7487.28	7746.85	8222.02	8879.29	9696.70	10650.91	11713.99	12872.16	14130.39	12872.18	11713.95	10650.91		
G 65.0	6571.68	6691.41	7051.95	7692.25	8536.41	9559.05	10740.53	12055.97	13514.71	15150.16	13514.74	12055.89	10740.53		
G 70.0	5570.14	5765.48	6276.86	7143.74	8223.67	9491.91	10954.48	12619.24	14526.27	16766.65	14526.35	12619.07	10954.48		
G 75.0	4363.15	4694.46	5435.85	6611.62	7971.81	9542.73	11395.83	13578.66	16219.92	19582.25	16220.10	13578.32	11395.83		
G 80.0	2952.84	3518.66	4556.94	6094.25	7820.48	9820.85	12260.57	15310.12	19371.58	25343.58	19371.99	15309.40	12260.57		
G 85.0	1375.99	2323.64	3738.68	5678.05	7873.88	10521.43	13978.55	18807.00	26509.68	42056.72	26510.63	18805.45	13978.55		
G 90.0	83.66	1336.66	3045.57	5332.82	8063.85	11743.02	17358.76	27331.28	53000.03	402962.77	53002.46	27328.37	17358.76		

Luminaire

Code 10-8102-05-M1
Name TUBS

Measurem.

Code 10-8102-05-M1
Name TUBS

Luminaire Flux	403 lm	Luminaire Power	13.3 W	Efficacy	30.301 lm/W	Efficiency	100.00%
Source Flux	403 lm	Maximum value	295.92 cd/klm	Position	C=90.00 G=0.00	CG Asymmetrical	

Luminance cd/m2 Table 2/3

	C 130.00	C 140.00	C 150.00	C 160.00	C 170.00	C 180.00	C 190.00	C 200.00	C 210.00	C 220.00	C 230.00	C 240.00	C 250.00
G 0.0	12449.61	12447.99	12448.14	12448.05	12447.34	12446.95	12447.34	12447.85	12448.14	12447.99	12449.61	12454.31	12457.55
G 5.0	12227.65	12187.41	12155.74	12133.95	12119.99	12115.14	12119.99	12133.95	12155.74	12187.41	12227.65	12276.10	12332.72
G 10.0	12009.37	11932.49	11872.67	11830.22	11805.34	11798.84	11805.34	11830.22	11872.67	11932.49	12009.37	12101.70	12206.34
G 15.0	11790.79	11679.05	11592.05	11530.62	11494.75	11485.38	11494.75	11530.62	11592.05	11679.05	11790.79	11924.92	12077.72
G 20.0	11567.99	11420.29	11304.88	11223.98	11176.90	11164.20	11176.90	11223.98	11304.88	11420.29	11567.99	11745.03	11948.04
G 25.0	11336.89	11151.31	11005.87	10903.25	10844.25	10828.93	10844.25	10903.25	11005.87	11151.31	11336.89	11560.02	11817.57
G 30.0	11100.00	10869.57	10690.45	10564.97	10493.35	10474.76	10493.35	10564.97	10690.45	10869.57	11100.00	11377.14	11694.40
G 35.0	10854.44	10571.50	10352.35	10201.28	10115.52	10092.66	10115.52	10201.28	10352.35	10571.50	10854.44	11194.65	11584.39
G 40.0	10603.87	10255.81	9988.30	9806.89	9705.03	9677.57	9705.03	9806.89	9988.30	10255.81	10603.87	11022.11	11497.73
G 45.0	10354.72	9924.55	9595.41	9373.28	9250.64	9218.33	9250.64	9373.28	9595.41	9924.55	10354.72	10870.07	11448.86
G 50.0	10115.82	9582.07	9169.20	8891.63	8739.47	8698.88	8739.47	8891.63	9169.20	9582.07	10115.82	10746.87	11450.07
G 55.0	9892.55	9233.18	8712.73	8355.43	8158.48	8105.76	8158.48	8355.43	8712.73	9233.18	9892.55	10663.71	11524.03
G 60.0	9696.88	8878.84	8222.02	7749.15	7481.55	7409.22	7481.55	7749.15	8222.02	8878.84	9696.88	10650.91	11713.95
G 65.0	9559.41	8535.53	7692.25	7056.43	6680.27	6571.68	6680.27	7056.43	7692.25	8535.53	9559.41	10740.53	12055.89
G 70.0	9492.65	8221.92	7143.74	6285.73	5743.47	5570.14	5743.47	6285.73	7143.74	8221.92	9492.65	10954.48	12619.07
G 75.0	9544.21	7968.34	6611.62	5453.20	4651.58	4363.15	4651.58	5453.20	6611.62	7968.34	9544.21	11395.83	13578.32
G 80.0	9823.80	7813.69	6094.25	4590.24	3436.69	2952.84	3436.69	4590.24	6094.25	7813.69	9823.80	12260.57	15309.40
G 85.0	10527.14	7861.11	5678.05	3799.58	2174.64	1375.99	2174.64	3799.58	5678.05	7861.11	10527.14	13978.55	18805.45
G 90.0	11751.66	8045.37	5332.82	3129.62	1132.95	83.66	1132.95	3129.62	5332.82	8045.37	11751.66	17358.76	27328.37

Luminaire

Code 10-8102-05-M1
Name TUBS

Measurem.

Code 10-8102-05-M1
Name TUBS

Luminaire Flux	403 lm	Luminaire Power		13.3 W		Efficacy	30.301 lm/W		Efficiency	100.00%
Source Flux	403 lm	Maximum value		295.92 cd/klm		Position	C=90.00 G=0.00		CG	Asymmetrical
Luminance cd/m2						Table 3/3				
	C 260.00	C 270.00	C 280.00	C 290.00	C 300.00	C 310.00	C 320.00	C 330.00	C 340.00	C 350.00
G 0.0	12461.21	12463.83	12461.21	12457.55	12454.31	12449.60	12447.99	12448.14	12448.03	12447.42
G 5.0	12390.71	12449.54	12391.25	12332.72	12276.10	12227.64	12187.43	12155.74	12133.81	12120.34
G 10.0	12319.44	12437.45	12319.44	12206.34	12101.70	12009.37	11932.49	11872.67	11830.21	11805.34
G 15.0	12245.18	12422.85	12245.18	12077.72	11924.92	11790.79	11679.06	11592.05	11530.60	11494.75
G 20.0	12172.11	12411.80	12172.11	11948.04	11745.03	11567.99	11420.30	11304.88	11223.92	11177.06
G 25.0	12102.18	12407.51	12102.18	11817.57	11560.02	11336.88	11151.31	11005.87	10903.20	10844.35
G 30.0	12045.16	12423.00	12045.16	11694.41	11377.14	11100.00	10869.59	10690.45	10564.88	10493.56
G 35.0	12013.41	12473.38	12013.40	11584.39	11194.65	10854.42	10571.54	10352.35	10201.06	10116.07
G 40.0	12017.30	12572.12	12017.29	11497.74	11022.11	10603.84	10255.88	9988.30	9806.53	9705.94
G 45.0	12076.82	12746.34	12076.82	11448.87	10870.07	10354.68	9924.64	9595.41	9372.81	9251.82
G 50.0	12212.12	13025.89	12212.11	11450.08	10746.87	10115.76	9582.23	9169.20	8890.81	8741.52
G 55.0	12457.17	13457.64	12457.16	11524.06	10663.71	9892.45	9233.44	8712.73	8354.07	8161.85
G 60.0	12872.18	14130.39	12872.16	11713.99	10650.91	9696.70	8879.29	8222.02	7746.85	7487.28
G 65.0	13514.74	15150.16	13514.71	12055.97	10740.53	9559.05	8536.41	7692.25	7051.95	6691.41
G 70.0	14526.35	16766.65	14526.27	12619.24	10954.48	9491.91	8223.67	7143.74	6276.86	5765.48
G 75.0	16220.10	19582.25	16219.92	13578.66	11395.83	9542.73	7971.81	6611.62	5435.85	4694.46
G 80.0	19371.99	25343.58	19371.58	15310.12	12260.57	9820.85	7820.48	6094.25	4556.94	3518.66
G 85.0	26510.63	42056.72	26509.68	18807.00	13978.55	10521.43	7873.88	5678.05	3738.68	2323.64
G 90.0	53002.46	402962.77	53000.03	27331.28	17358.76	11743.02	8063.85	5332.82	3045.57	1336.66

Luminaire

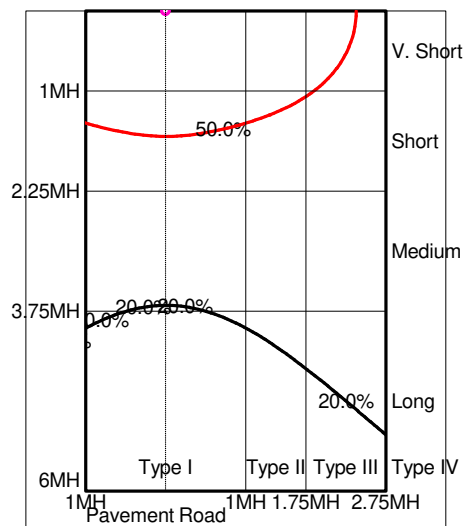
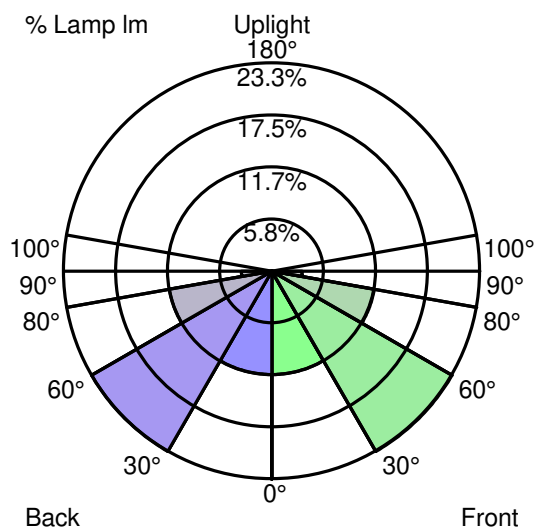
Code 10-8102-05-M1
Name TUBS

Measurem.

Code 10-8102-05-M1
Name TUBS

Luminaire Flux	403 lm	Luminaire Power	13.3 W	Efficacy	30.301 lm/W	Efficiency	100.00%
Source Flux	403 lm	Maximum value	295.92 cd/klm	Position	C=90.00 G=0.00	CG Asymmetrical	

US ROAD STANDARDS



Luminaire Classification System (LCS)				
LCS Zone		Lumens	%Lamp	%Lum
FL	0° -- 30°	46.7 lm	11.6 %	11.6 %
FM	30° -- 60°	94.0 lm	23.3 %	23.3 %
FH	60° -- 80°	47.0 lm	11.7 %	11.7 %
FVH	80° -- 90°	13.7 lm	3.4 %	3.4 %
BL	0° -- 30°	46.7 lm	11.6 %	11.6 %
BM	30° -- 60°	94.0 lm	23.3 %	23.3 %
BH	60° -- 80°	47.0 lm	11.7 %	11.7 %
BVH	80° -- 90°	13.7 lm	3.4 %	3.4 %
UL	90° -- 100°	0.0 lm	0.0 %	0.0 %
UH	100° -- 180°	0.0 lm	0.0 %	0.0 %
TOTALS		403.0 lm	100.0 %	100.0 %
BUG B0 U0 G1 Type VS Very Short Quadrilateral Symmetry				