

## Luminaire

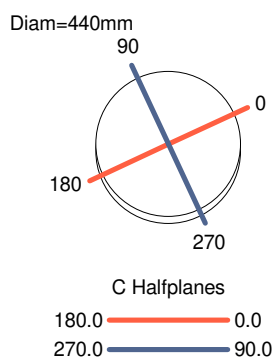
Code 10-5076-01-H13W  
Name Portatil PREMIUM 3x18W CFL E27

## Measurem.

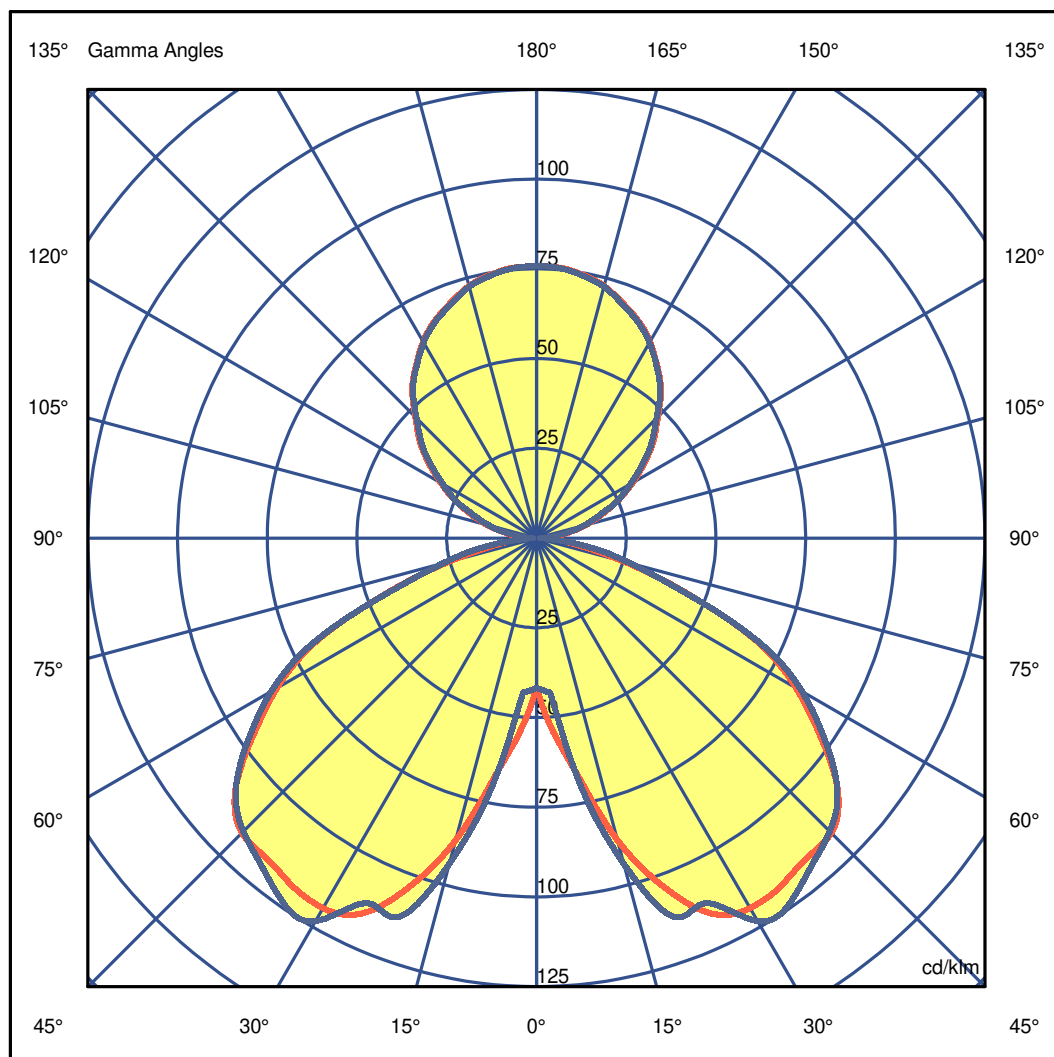
Code 10-5076-01-H13W  
Name Portatil PREMIUM 3x18W CFL E27

Luminaire Flux	2065 lm	Luminaire Power	54.0 W	Efficacy	38.243 lm/W	Efficiency	62.58%
Source Flux	3300 lm	Maximum value	123.55 cd/klm	Position	C=90.00 G=35.00	CG	Asymmetrical
Round Luminaire		Diam.	440 mm	Height	210 mm		
Round Luminous Area		Diam.	440 mm	Height	210 mm		
Horizontal Luminous Area		0.152053 m2		Emitting area on Plane 180°		0.092400 m2	
Emitting area on Plane 0°		0.092400 m2		Emitting area on Plane 270°		0.092400 m2	
Emitting area on Plane 90°		0.092400 m2		Glare area at 76°		0.126440 m2	
Coordinate system		CG		Symmetry Type		Asymmetrical	
Date		16-06-2015		Maximum Gamma Angle		180	
Measurement Distance		0.00		Measurement Flux		3300 lm	
Operator		Asselum T2		Rated Voltage			
Temperature				Rated Current			
Humidity				Photocell			
Notes							

Luminaire Sources						
Line	Code	Name	Flux [lm]	Pow. [W]	Q.ty	
	LED	GENIE ESAVER 18W/827	1100.00	18.00	3	
C.I.E.	38 76 96 67 63	D DIN 5040	B21			
F UTE	0.42 E + 0.21 T	B NBN	BZ 6 / 0.8 / BZ 5			



ULOR 20.91 %  
DLOR 41.67 %  
RN 33.42 %



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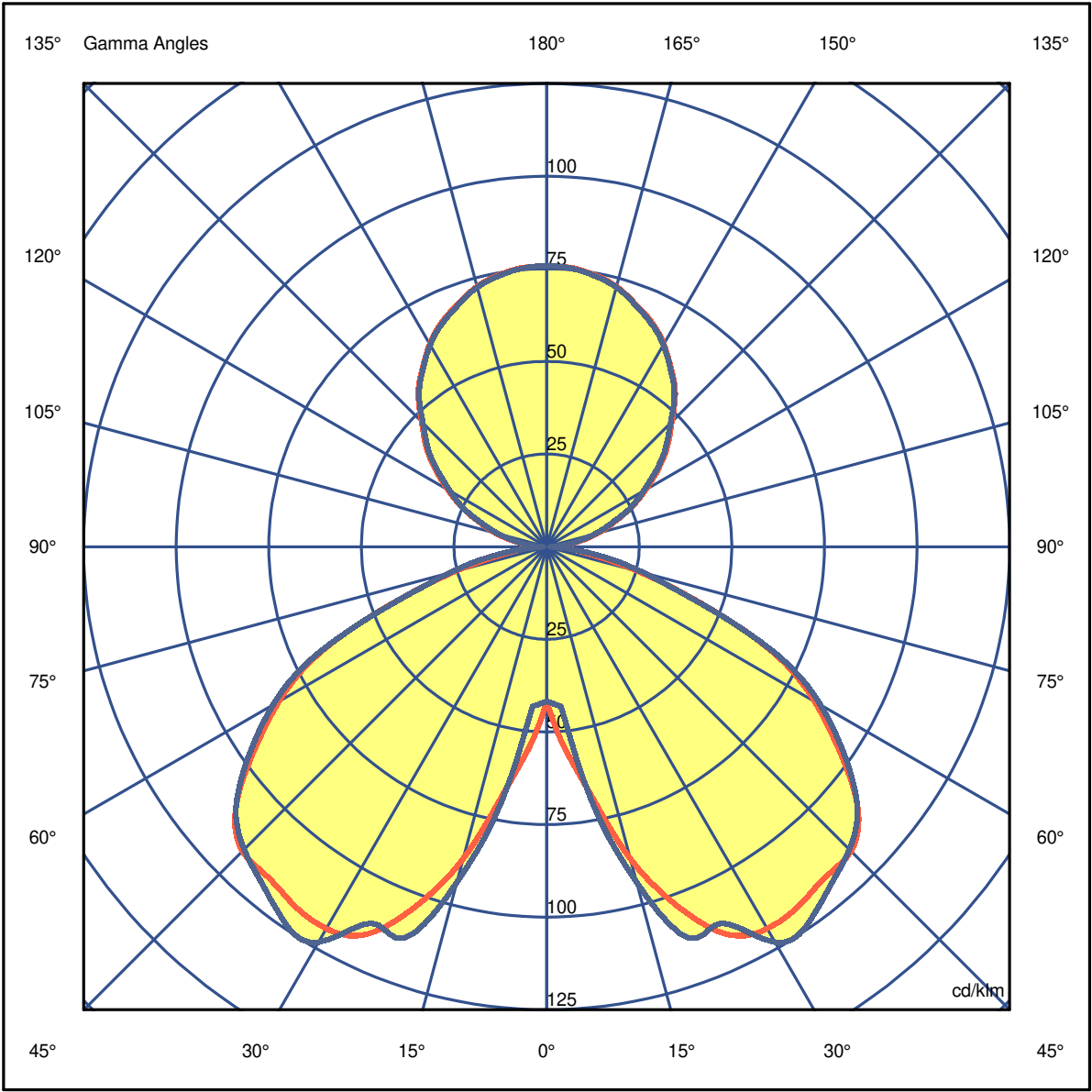
## Measurment

Code 10-5076-01-H13W  
Name Portatil PREMIUM 3x18W CFL E27

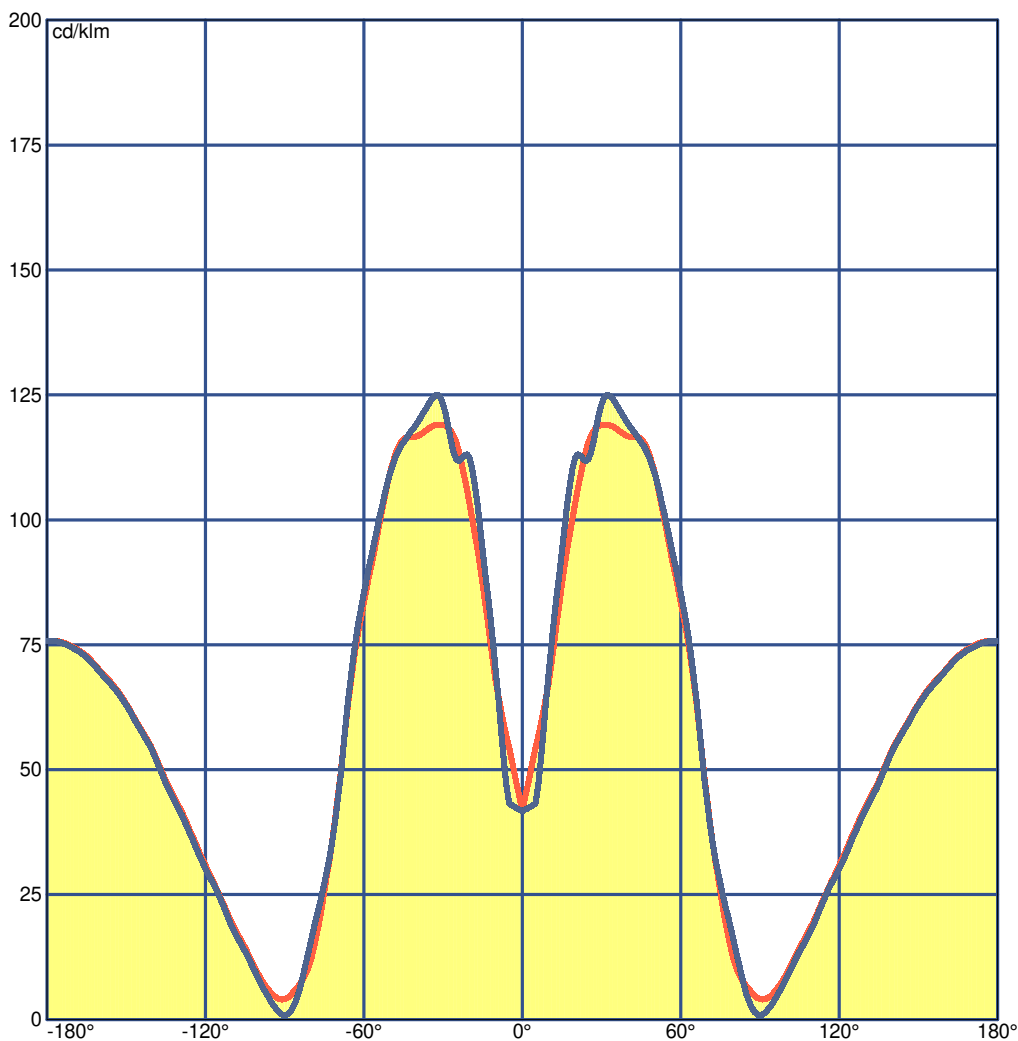
Luminaire Flux	2065 lm		Luminaire Power		54.0 W		Efficacy		38.243 lm/W		Efficiency		62.58%	
Source Flux	3300 lm		Maximum value		123.55 cd/klm		Position		C=90.00 G=35.00		CG Asymmetrical			
Luminous Intensity Table cd/klm Table 1/1														
	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00	C 105.00	C 120.00	C 135.00	C 150.00	C 165.00		
G 0.0	41.68	41.68	41.68	41.68	41.68	41.68	41.68	41.68	41.68	41.68	41.68	41.68	41.68	41.68
G 5.0	54.39	52.87	42.11	42.05	46.82	47.38	43.19	47.38	46.82	42.05	42.11	52.87	54.39	52.87
G 10.0	67.65	61.65	62.66	59.02	56.08	64.73	69.67	64.73	56.08	59.02	62.66	61.65	67.65	61.65
G 15.0	87.20	78.33	78.22	73.48	72.49	79.15	93.86	79.15	72.49	73.48	78.22	78.33	87.20	78.33
G 20.0	103.24	107.25	90.27	83.68	84.30	97.45	112.38	97.45	84.30	83.68	90.27	107.25	103.24	107.25
G 25.0	115.45	115.40	102.05	93.20	98.77	106.48	112.08	106.48	98.77	93.20	102.05	115.40	115.45	115.40
G 30.0	119.01	118.31	111.44	102.96	106.22	107.36	123.25	107.36	106.22	102.96	111.44	118.31	119.01	118.31
G 35.0	118.45	119.21	117.06	113.92	110.56	110.74	123.55	110.74	110.56	113.92	117.06	119.21	118.45	119.21
G 40.0	116.71	118.30	118.33	115.55	116.66	113.72	119.21	113.72	116.66	115.55	118.33	118.30	116.71	118.30
G 45.0	116.15	112.27	111.02	110.19	115.17	112.93	115.55	112.93	115.17	110.19	111.02	112.27	116.15	112.27
G 50.0	109.64	105.96	101.95	100.90	107.59	107.75	109.48	107.75	107.59	100.90	101.95	105.96	109.64	105.96
G 55.0	96.66	92.04	87.20	88.97	97.33	97.72	98.14	97.72	97.33	88.97	87.20	92.04	96.66	92.04
G 60.0	83.49	77.59	72.41	75.65	83.66	85.71	85.34	85.71	83.66	75.65	72.41	77.59	83.49	77.59
G 65.0	67.38	60.49	55.68	61.47	68.15	67.24	68.29	67.24	68.15	61.47	55.68	60.49	67.38	60.49
G 70.0	43.84	44.12	42.59	47.33	49.56	45.23	43.33	45.23	49.56	47.33	42.59	44.12	43.84	44.12
G 75.0	25.49	27.61	27.80	29.47	29.37	27.73	27.12	27.73	29.37	29.47	27.80	27.61	25.49	27.61
G 80.0	12.05	12.49	10.22	11.75	12.65	11.77	15.88	11.77	12.65	11.75	10.22	12.49	12.05	12.49
G 85.0	6.58	4.66	3.62	4.55	4.32	4.43	4.88	4.43	4.32	4.55	3.62	4.66	6.58	4.66
G 90.0	4.08	1.47	1.78	0.87	0.91	0.90	0.86	0.90	0.91	0.87	1.78	1.47	4.08	1.47
G 95.0	5.25	3.88	4.88	3.59	3.44	3.64	3.47	3.64	3.44	3.59	4.88	3.88	5.25	3.88
G100.0	9.10	8.67	9.39	8.25	8.30	8.54	8.27	8.54	8.30	8.25	9.39	8.67	9.10	8.67
G105.0	14.37	13.97	15.30	13.83	13.52	13.86	13.65	13.86	13.52	13.83	15.30	13.97	14.37	13.97
G110.0	19.34	18.84	20.31	18.86	18.98	18.83	18.59	18.83	18.98	18.86	20.31	18.84	19.34	18.84
G115.0	25.24	24.80	26.66	24.73	24.66	24.71	24.97	24.71	24.66	24.73	26.66	24.80	25.24	24.80
G120.0	30.85	30.31	31.94	30.27	30.63	30.36	30.17	30.36	30.63	30.27	31.94	30.31	30.85	30.31
G125.0	36.81	36.23	37.52	36.02	36.25	36.21	36.16	36.21	36.25	36.02	37.52	36.23	36.81	36.23
G130.0	42.64	42.02	43.77	42.10	41.83	42.11	42.02	42.11	41.83	42.10	43.77	42.02	42.64	42.02
G135.0	47.78	47.34	49.06	47.48	47.65	47.65	47.29	47.65	47.65	47.48	49.06	47.34	47.78	47.34
G140.0	53.93	53.39	55.11	53.15	53.29	53.50	53.61	53.50	53.29	53.15	55.11	53.39	53.93	53.39
G145.0	58.60	58.17	59.64	58.12	58.49	58.40	58.33	58.40	58.49	58.12	59.64	58.17	58.60	58.17
G150.0	63.17	62.66	64.13	62.91	62.90	62.91	62.95	62.91	62.90	62.91	64.13	62.66	63.17	62.66
G155.0	66.93	66.49	67.77	66.75	66.60	66.73	66.63	66.73	66.60	66.75	67.77	66.49	66.93	66.49
G160.0	69.83	69.64	70.58	69.76	69.84	69.78	69.60	69.78	69.84	69.76	70.58	69.64	69.83	69.64
G165.0	72.74	72.35	73.20	72.51	72.35	72.43	72.52	72.43	72.35	72.51	73.20	72.35	72.74	72.35
G170.0	74.49	74.25	74.82	74.32	74.32	74.18	74.27	74.18	74.32	74.32	74.82	74.25	74.49	74.25
G175.0	75.65	75.52	75.74	75.54	75.39	75.47	75.48	75.47	75.39	75.54	75.74	75.52	75.65	75.52
G180.0	75.79	75.79	75.79	75.79	75.79	75.79	75.79	75.79	75.79	75.79	75.79	75.79	75.79	75.79
	C 180.00	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	41.68	41.68	41.68	41.68	41.68	41.68	41.68	41.68	41.68	41.68	41.68	41.68	41.68	41.68
G 5.0	54.39	52.87	42.11	42.05	46.82	47.38	43.19	47.38	46.82	42.05	42.11	52.87	54.39	52.87
G 10.0	67.65	61.65	62.66	59.02	56.08	64.73	69.67	64.73	56.08	59.02	62.66	61.65	67.65	61.65
G 15.0	87.20	78.33	78.22	73.48	72.49	79.15	93.86	79.15	72.49	73.48	78.22	78.33	87.20	78.33
G 20.0	103.24	107.25	90.27	83.68	84.30	97.45	112.38	97.45	84.30	83.68	90.27	107.25	103.24	107.25
G 25.0	115.45	115.40	102.05	93.20	98.77	106.48	112.08	106.48	98.77	93.20	102.05	115.40	115.45	115.40
G 30.0	119.01	118.31	111.44	102.96	106.22	107.36	123.25	107.36	106.22	102.96	111.44	118.31	119.01	118.31
G 35.0	118.45	119.21	117.06	113.92	110.56	110.74	123.55	110.74	110.56	113.92	117.06	119.21	118.45	119.21
G 40.0	116.71	118.30	118.33	115.55	116.66	113.72	119.21	113.72	116.66	115.55	118.33	118.30	116.71	118.30
G 45.0	116.15	112.27	111.02	110.19	115.17	112.93	115.55	112.93	115.17	110.19	111.02	112.27	116.15	112.27
G 50.0	109.64	105.96	101.95	100.90	107.59	107.75	109.48	107.75	107.59	100.90	101.95	105.96	109.64	105.96
G 55.0	96.66	92.04	87.20	88.97	97.33	97.72	98.14	97.72	97.33	88.97	87.20	92.04	96.66	92.04
G 60.0	83.49	77.59	72.41	75.65	83.66	85.71	85.34	85.71	83.66	75.65	72.41	77.59	83.49	77.59
G 65.0	67.38	60.49	55.68	61.47	68.15	67.24	68.29	67.24	68.15	61.47	55.68	60.49	67.38	60.49
G 70.0	43.84	44.12	42.59	47.33	49.56	45.23	43.33	45.23	49.56	47.33	42.59	44.12	43.84	44.12
G 75.0	25.49	27.61	27.80	29.47	29.37	27.73	27.12	27.73	29.37	29.47	27.80	27.61	25.49	27.61
G 80.0	12.05	12.49	10.22	11.75	12.65	11.77	15.88	11.77	12.65	11.75	10.22	12.49	12.05	12.49
G 85.0	6.58	4.66	3.62	4.55	4.32	4.43	4.88	4.43	4.32	4.55	3.62	4.66	6.58	4.66
G 90.0	4.08	1.47	1.78	0.87	0.91	0.90	0.86	0.90	0.91	0.87	1.78	1.47	4.08	1.47
G 95.0	5.25	3.88	4.88	3.59	3.44	3.64	3.47	3.64	3.44	3.59	4.88	3.88	5.25	3.88
G100.0	9.10	8.67	9.39	8.25	8.30	8.54	8.27	8.54	8.30	8.25	9.39	8.67	9.10	8.67
G105.0	14.37	13.97	15.30	13.83	13.52	13.86	13.65	13.86	13.52	13.83	15.30	13.97	14.37	13.97
G110.0	19.34	18.84	20.31	18.86	18.98	18.83	18.59	18.83	18.98	18.86	20.31	18.84	19.34	18.84
G115.0	25.24	24.80	26.66	24.73	24.66	24.71	24.97	24.71	24.66	24.73	26.66	24.80	25.24	24.80
G120.0	30.85	30.31	31.94	30.27	30.63	30.36	30.17	30.36	30.63	30.27	31.94	30.31	30.85	30.31
G125.0	36.81	36.23	37.52	36.02	36.25	36.21	36.16	36.21	36.25	36.02	37.52	36.23	36.81	36.23
G130.0	42.64	42.02	43.77	42.10	41.83	42.11	42.02	42.11	41.83	42.10	43.77	42.02	42.64	42.02
G135.0	47.78	47.34	49.06	47.48	47.65	47.65	47.29	47.65	47.65	47.48	49.06	47.34	47.78	47.34
G140.0	53.93	53.39	55.11	53.15	53.29	53.50	53.61	53.50	53.29	53.15	55.11	53.39	53.93	53.39
G145.0	58.60	58.17	59.64	58.12	58.49	58.40	58.33	58.40	58.49	58.12	59.64	58.17	58.60	58.17
G150.0	63.17	62.66	64.13	62.91	62.90	62.91	62.95	62.91	62.90	62.91	64.13	62.66	63.17	62.66
G155.0	66.93	66.49	67.77	66.75	66.60	66.73	66.63	66.73	66.60	66.75	67.77	66.49	66.93	66.49
G160.0	69.83	69.64	70.58	69.76	69.84	69.78	69.60	69.78	69.84	69.76	70.58	69.64	69.83	69.64
G165.0	72.74	72.35	73.20	72.51	72.35	72.43	72.52	72.43	72.35	72.51	73.20	72.35	72.74	72.35
G170.0	74.49	74.25	74.82	74.32	74.32	74.18	74.27	74.18	74.32	74.32				

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**Measurem.**  
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Luminaire Flux	2065 lm	Luminaire Power	54.0 W	Efficacy	38.243 lm/W	Efficiency	62.58%
Source Flux	3300 lm	Maximum value	123.55 cd/klm	Position	C=90.00 G=35.00	CG	Asymmetrical



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**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	13.2	14.2	13.9	14.9	15.8	13.6	14.6	14.3	15.3	16.2
x=2H y=3H	14.2	15.1	15.0	15.9	16.8	14.6	15.5	15.4	16.3	17.2
x=2H y=4H	14.5	15.3	15.2	16.0	17.0	14.8	15.6	15.6	16.4	17.3
x=2H y=6H	14.5	15.3	15.3	16.1	17.0	14.9	15.6	15.7	16.4	17.4
x=2H y=8H	14.5	15.2	15.3	16.0	16.9	14.9	15.6	15.6	16.4	17.3
x=2H y=12H	14.4	15.1	15.2	15.9	16.9	14.8	15.5	15.6	16.3	17.3
x=4H y=2H	13.6	14.4	14.4	15.2	16.1	14.0	14.8	14.7	15.6	16.5
x=4H y=3H	14.8	15.5	15.6	16.3	17.2	15.2	15.9	16.0	16.6	17.6
x=4H y=4H	15.1	15.7	15.9	16.5	17.5	15.4	16.1	16.3	16.9	17.9
x=4H y=6H	15.1	15.7	16.0	16.5	17.5	15.5	16.1	16.4	16.9	17.9
x=4H y=8H	15.1	15.6	16.0	16.4	17.5	15.5	16.0	16.4	16.8	17.9
x=4H y=12H	15.1	15.5	16.0	16.4	17.4	15.5	15.9	16.3	16.8	17.8
x=8H y=4H	15.1	15.6	16.0	16.4	17.5	15.5	15.9	16.3	16.8	17.8
x=8H y=6H	15.2	15.6	16.1	16.5	17.6	15.6	16.0	16.5	16.8	17.9
x=8H y=8H	15.2	15.6	16.1	16.4	17.5	15.6	15.9	16.5	16.8	17.9
x=8H y=12H	15.2	15.5	16.1	16.4	17.5	15.6	15.8	16.5	16.7	17.8
x=12H y=4H	15.1	15.5	15.9	16.4	17.4	15.4	15.8	16.3	16.7	17.7
x=12H y=6H	15.2	15.5	16.1	16.4	17.5	15.5	15.9	16.4	16.7	17.8
x=12H y=8H	15.2	15.5	16.1	16.4	17.5	15.5	15.8	16.4	16.7	17.8

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## Measurum.

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Luminaire Flux	2065 lm	Luminaire Power	54.0 W	Efficacy	38.243 lm/W	Efficiency	62.58%
Source Flux	3300 lm	Maximum value	123.55 cd/klm	Position	C=90.00 G=35.00	CG Asymmetrical	

Total Flux=3300.00 Luminaire Flux=2065.11

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	0.23	0.33	0.41	0.49	0.55	0.65	0.71	0.75	0.81	0.84	0.92	0.96
RC	7	6	6	6	6	6	6	6	5	5	5	5

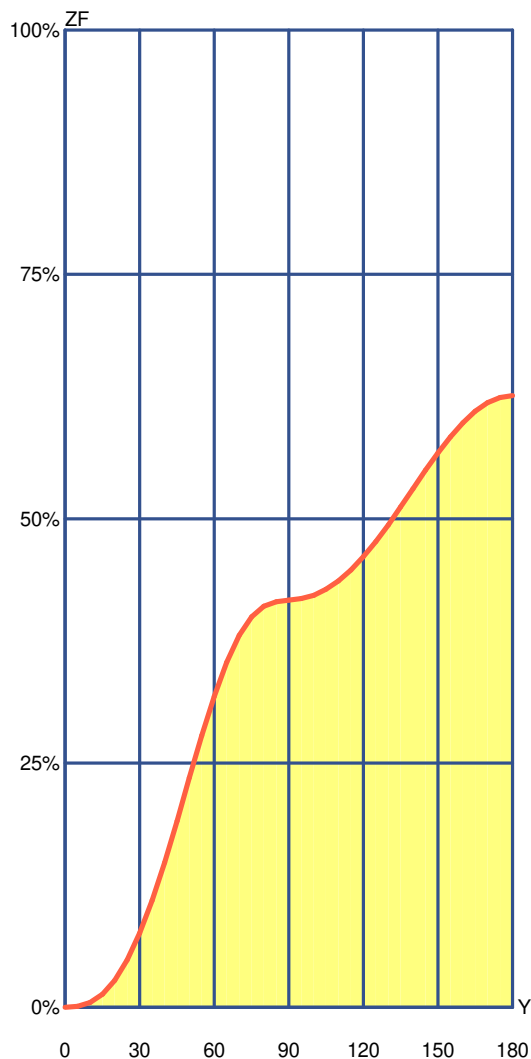
Zonal Flux per 1000 Lumen

Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	5	28	76	148	235	318	381	410	417	422	436	461	494	531	567	598	619	626

CIE Flux Codes  
38 76 96 67 63

C.I.E. 7/6/6/6/6/6/6/5/5/5  
D DIN 5040 B21  
F UTE 0.42 E + 0.21 T  
B NBN BZ 6 / 0.8 / BZ 5  
RN 33.41921 %  
BLF 1.0

LOR 62.57921 %  
ULOR 20.91348 %  
DLOR 41.66574 %  
UFF 33.41921 %  
DFF 66.58079 %  
FFR 50.19346 %



Zonal Flux				
Gamma °	Flux	Sum lm	Flux [%]	Sum [%]
0°	0.00	0.00	0.00 %	0.00 %
5°	1.06	1.06	0.17 %	0.17 %
10°	3.89	4.95	0.62 %	0.79 %
15°	8.35	13.30	1.33 %	2.13 %
20°	14.33	27.63	2.29 %	4.41 %
25°	20.98	48.61	3.35 %	7.77 %
30°	27.36	75.97	4.37 %	12.14 %
35°	33.38	109.35	5.33 %	17.47 %
40°	38.74	148.08	6.19 %	23.66 %
45°	42.52	190.60	6.80 %	30.46 %
50°	44.16	234.76	7.06 %	37.51 %
55°	43.28	278.04	6.92 %	44.43 %
60°	40.07	318.11	6.40 %	50.83 %
65°	34.86	352.97	5.57 %	56.40 %
70°	27.57	380.54	4.41 %	60.81 %
75°	19.20	399.74	3.07 %	63.88 %
80°	10.75	410.49	1.72 %	65.60 %
85°	4.54	415.03	0.72 %	66.32 %
90°	1.63	416.66	0.26 %	66.58 %
95°	1.47	418.13	0.23 %	66.82 %
100°	3.43	421.55	0.55 %	67.36 %
105°	6.08	427.63	0.97 %	68.33 %
110°	8.68	436.31	1.39 %	69.72 %
115°	11.20	447.52	1.79 %	71.51 %
120°	13.56	461.08	2.17 %	73.68 %
125°	15.52	476.59	2.48 %	76.16 %
130°	17.14	493.73	2.74 %	78.90 %
135°	18.21	511.94	2.91 %	81.81 %
140°	18.79	530.73	3.00 %	84.81 %
145°	18.73	549.46	2.99 %	87.80 %
150°	17.91	567.38	2.86 %	90.67 %
155°	16.45	583.82	2.63 %	93.29 %
160°	14.34	598.16	2.29 %	95.58 %
165°	11.74	609.90	1.88 %	97.46 %
170°	8.72	618.62	1.39 %	98.85 %
175°	5.36	623.98	0.86 %	99.71 %
180°	1.81	625.79	0.29 %	100.00 %

## Luminaire

Code 10-5076-01-H13W  
Name Portatil PREMIUM 3x18W CFL E27

## Measurem.

Code 10-5076-01-H13W  
Name Portatil PREMIUM 3x18W CFL E27

Luminaire Flux	2065 lm	Luminaire Power	54.0 W	Efficacy	38.243 lm/W	Efficiency	62.58%
Source Flux	3300 lm	Maximum value	123.55 cd/klm	Position	C=90.00 G=35.00	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	280	251	257	232	239	221	198	168	187	160	165	124	148	101	149	133	117	121	96	111	102	88	78		
0.80	311	285	275	254	271	243	227	198	208	183	183	145	164	120	171	152	137	138	114	130	119	105	93		
1.00	332	309	284	266	294	255	249	222	221	198	196	161	176	135	186	167	153	151	129	145	133	118	105		
1.25	350	330	289	274	314	263	270	245	232	212	207	176	187	150	199	180	167	165	144	159	147	132	116		
1.50	363	345	291	279	328	268	286	263	239	221	215	188	196	162	209	190	179	175	155	170	158	144	125		
2.00	379	365	291	281	348	272	310	290	247	233	227	203	209	180	221	204	194	190	173	186	174	161	139		
2.50	390	378	290	282	361	273	327	309	252	240	234	214	218	193	229	214	205	201	186	197	186	174	149		
3.00	397	387	288	282	370	274	339	324	255	245	239	222	225	202	234	221	213	209	196	205	195	183	157		
4.00	407	399	285	281	382	274	356	344	259	252	246	232	234	216	241	230	224	220	209	216	208	197	167		
5.00	413	406	284	280	389	274	368	357	262	255	250	239	240	225	246	236	231	228	218	224	216	206	174		
10.00	426	423	279	277	406	273	393	387	266	263	260	254	254	245	255	249	247	244	239	240	235	227	190		
20.00	433	431	276	275	414	271	407	404	268	266	265	262	261	257	259	257	255	254	251	249	246	240	199		

## 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	271	255	242	229	247	222	195	181	180	168	151	135	130	113	161	137	131	119	111	128	112	106	96
0.80	309	294	268	256	282	247	230	215	206	194	177	160	155	136	185	160	154	142	132	149	132	125	112
1.00	336	321	284	273	306	263	256	240	224	212	196	178	174	154	200	177	170	159	149	163	147	138	124
1.25	359	345	296	286	328	274	280	264	240	228	213	196	191	172	214	192	185	174	164	176	161	150	134
1.50	375	362	303	295	343	282	298	283	251	240	225	209	205	185	224	203	197	186	176	186	171	159	141
2.00	394	383	309	302	361	288	321	307	262	252	240	224	221	203	233	216	209	200	190	196	183	169	148
2.50	406	396	311	305	372	291	337	324	268	260	249	235	232	215	239	223	218	210	200	202	191	175	152
3.00	414	405	311	306	379	291	348	336	272	264	255	242	240	223	242	228	223	216	207	206	196	178	154
4.00	426	418	313	309	391	294	365	354	278	272	264	253	251	237	248	237	232	226	219	213	204	185	158
5.00	434	428	315	312	399	296	376	367	283	278	271	262	260	247	253	243	239	234	227	218	211	190	162
10.00	453	449	320	318	417	302	404	398	295	292	287	282	281	273	264	258	256	252	248	231	226	202	171
20.00	463	461	321	320	427	305	419	416	300	299	296	293	292	288	269	266	265	263	260	238	235	209	176

## 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	294	278	274	260	268	251	204	190	196	184	159	143	132	116	175	143	138	120	112	133	112	106	96
0.80	363	345	334	320	330	307	265	249	253	239	214	195	185	164	225	193	186	168	158	178	156	147	136
1.00	417	399	380	366	380	350	316	298	299	283	260	239	230	207	266	235	227	210	198	216	194	182	169
1.25	468	451	422	409	427	391	366	347	343	328	306	284	277	251	306	276	268	252	239	253	232	217	203
1.50	507	490	453	441	463	421	406	387	377	362	342	319	313	286	337	308	300	285	271	282	262	244	229
2.00	562	548	495	485	516	463	465	447	426	413	396	374	370	343	382	357	349	336	322	326	309	285	269
2.50	599	585	522	514	550	490	505	488	459	446	431	411	408	382	411	390	382	371	357	355	340	313	295
3.00	624	613	541	533	574	509	534	518	481	470	457	438	436	411	432	413	406	396	383	376	362	332	314
4.00	657	648	564	558	606	532	573	559	510	501	490	474	472	451	459	443	437	429	418	402	391	357	337
5.00	678	670	578	573	625	546	597	585	528	520	511	497	495	476	475	462	457	450	440	419	409	372	352
10.00	721	717	606	603	667	575	651	644	565	561	555	547	546	535	510	503	499	496	489	454	449	405	382
20.00	744	742	620	619	689	590	681	677	585	583	580	575	575	568	529	525	523	521	517	474	471	423	399

LM53 SHR C0-C180: 2.703 SHR C90-C270: 2.728 SHR Square: 1.980

## Luminaire

Code 10-5076-01-H13W  
Name Portatil PREMIUM 3x18W CFL E27

## Measurem.

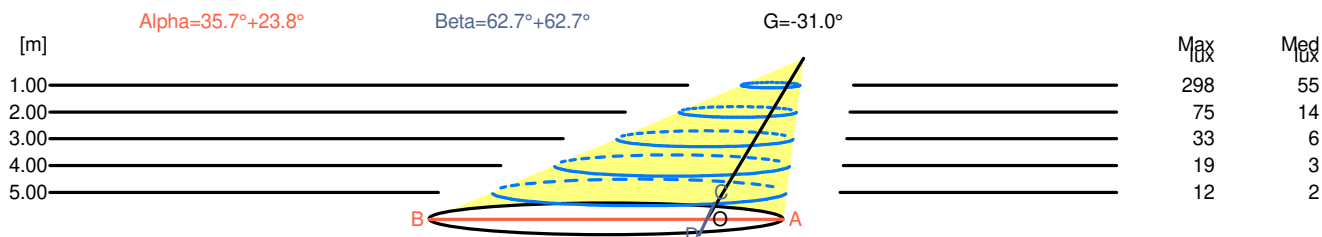
Code 10-5076-01-H13W  
Name Portatil PREMIUM 3x18W CFL E27

Luminaire Flux	2065 lm	Luminaire Power	54.0 W	Efficacy	38.243 lm/W	Efficiency	62.58%
Source Flux	3300 lm	Maximum value	123.55 cd/klm	Position	C=90.00 G=35.00	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	0.48	0.95	1.43	1.90	2.38	OC	2.26	4.52	6.79	9.05	11.31
OB	1.72	3.45	5.17	6.89	8.62	OD	2.26	4.52	6.79	9.05	11.31

	Luminous Intensities [ cd/klm]									
	0	5	15	25	35	45	55	65	75	85
OA	137.54	179.48	287.75	381.00	390.87	383.28	318.99	222.35	84.10	21.73
OB	137.54	179.48	287.75	381.00	390.87	383.28	318.99	222.35	84.10	21.73
OC	137.54	142.53	309.75	369.87	407.71	381.30	323.86	225.34	89.49	16.11
OD	137.54	142.53	309.75	369.87	407.71	381.30	323.86	225.34	89.49	16.11



H[m]	D[m]	Max lux	Med lux	Alpha=35.7°+23.8°	G=-31.0	
1.00	2.20	298	55			
2.00	4.40	75	14			
3.00	6.60	33	6			
4.00	8.80	19	3			
5.00	10.99	12	2			

H[m]	D[m]	Max lux	Med lux	Beta=62.7°+62.7°	G=0.0	
1.00	4.52	298	55			
2.00	9.05	75	14			
3.00	13.57	33	6			
4.00	18.10	19	3			
5.00	22.62	12	2			



## Luminaire

Code 10-5076-01-H13W  
Name Portatil PREMIUM 3x18W CFL E27

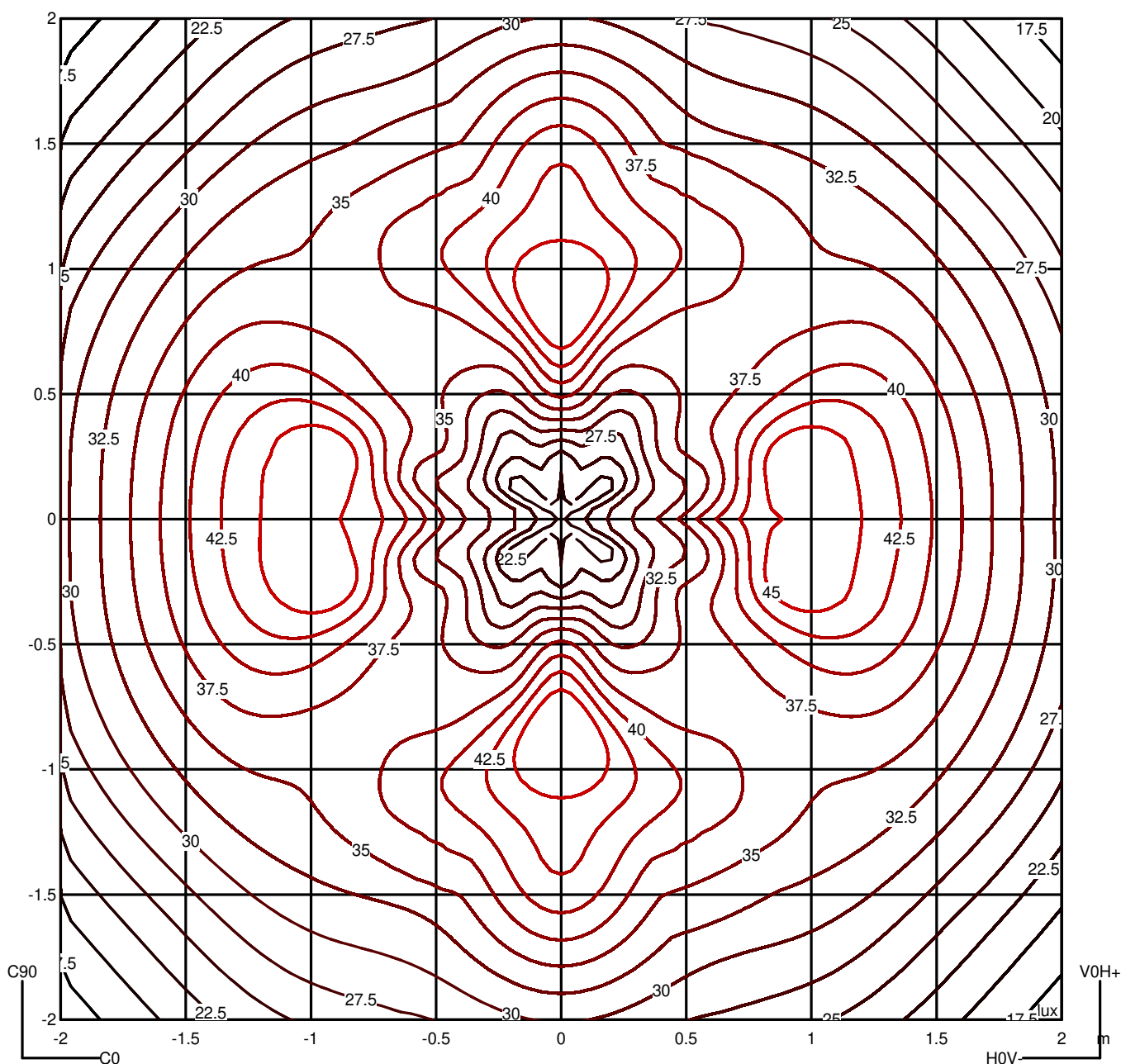
## Measurem.

Code 10-5076-01-H13W  
Name Portatil PREMIUM 3x18W CFL E27

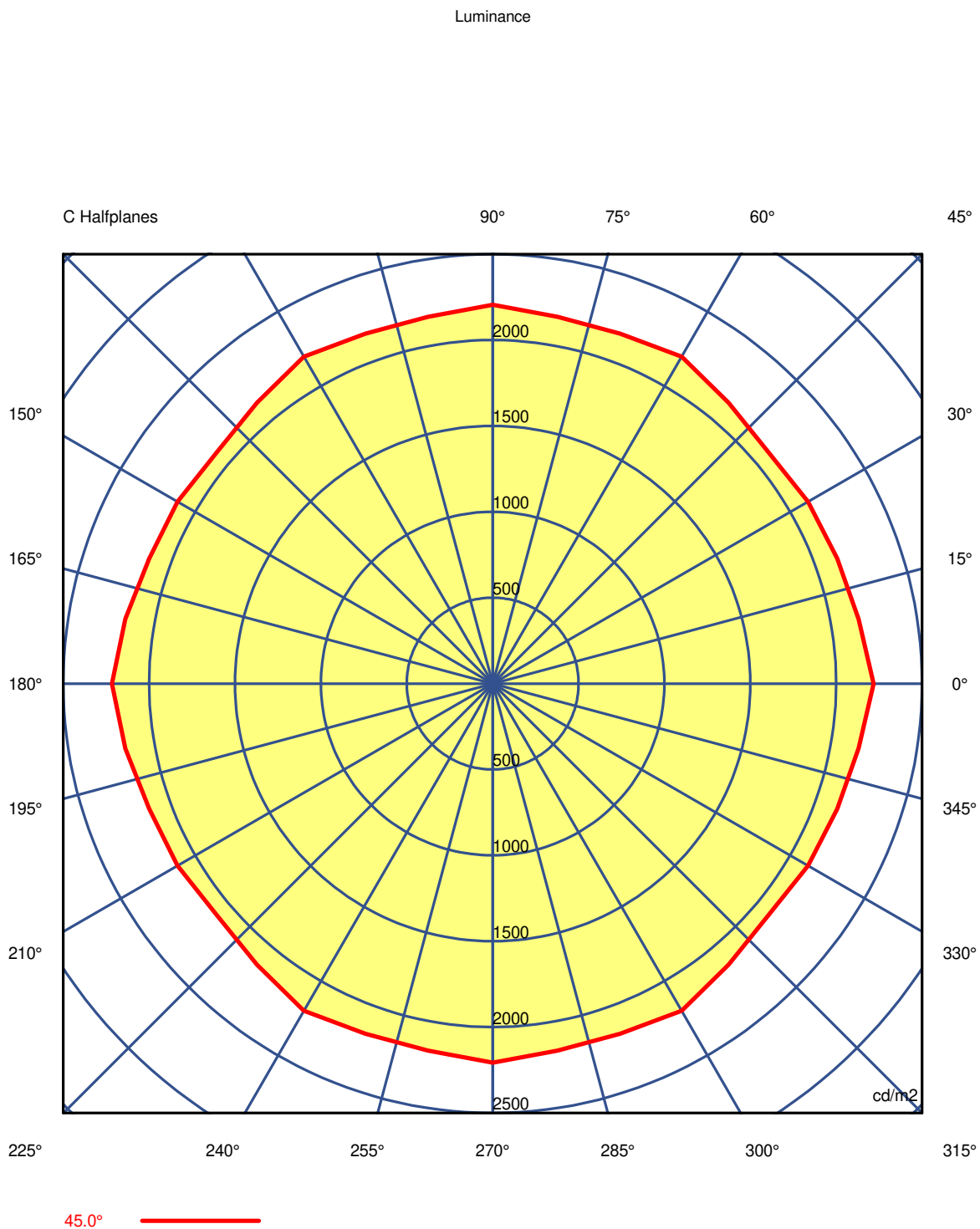
Luminaire Flux	2065 lm	Luminaire Power	54.0 W	Efficacy	38.243 lm/W	Efficiency	62.58%
Source Flux	3300 lm	Maximum value	123.55 cd/klm	Position	C=90.00 G=35.00	CG	Asymmetrical

Isolux (Floor)

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



<b>Luminaire</b>							
Code	10-5076-01-H13W						
Name	Portatil PREMIUM 3x18W CFL E27						
<b>Measurem.</b>							
Code	10-5076-01-H13W						
Name	Portatil PREMIUM 3x18W CFL E27						
Luminaire Flux	2065 lm	Luminaire Power	54.0 W	Efficacy	38.243 lm/W	Efficiency	62.58%
Source Flux	3300 lm	Maximum value	123.55 cd/klm	Position	C=90.00 G=35.00	CG	Asymmetrical



## Luminaire

Code 10-5076-01-H13W  
Name Portatil PREMIUM 3x18W CFL E27

## Measurment

Code 10-5076-01-H13W  
Name Portatil PREMIUM 3x18W CFL E27

Luminaire Flux		2065 lm		Luminaire Power		54.0 W		Efficacy		38.243 lm/W		Efficiency		62.58%	
Source Flux		3300 lm		Maximum value		123.55 cd/klm		Position		C=90.00 G=35.00		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	904.56	904.56	904.56	904.56	904.56	904.56	904.56	904.56	904.56	904.56	904.56	904.56	904.56	904.56	904.56
G 5.0	1125.06	1104.09	1023.14	871.05	845.59	903.09	968.52	994.13	946.31	893.48	946.32	994.11	968.52	994.11	968.52
G 10.0	1346.58	1250.90	1227.55	1247.33	1210.43	1137.70	1116.31	1221.25	1341.47	1386.70	1341.42	1221.34	1116.31	1341.42	1116.31
G 15.0	1684.85	1550.99	1512.75	1511.36	1453.04	1400.78	1400.75	1453.11	1647.96	1813.64	1647.89	1453.25	1400.75	1647.89	1400.75
G 20.0	1952.56	2047.16	1942.19	1707.28	1600.28	1571.05	1594.26	1732.04	1971.04	2125.50	1971.09	1731.92	1594.26	1971.09	1594.26
G 25.0	2154.27	2153.57	2088.67	1904.12	1764.01	1752.38	1843.06	1938.87	2035.79	2091.34	2035.81	1938.83	1843.06	2035.81	1843.06
G 30.0	2207.77	2199.18	2167.19	2067.47	1940.67	1921.00	1970.47	1984.62	2102.88	2286.46	2102.88	1984.62	1970.47	2102.88	1970.47
G 35.0	2201.42	2215.66	2207.66	2175.73	2136.55	2098.65	2054.82	2021.59	2149.75	2296.25	2149.76	2057.10	2054.82	2149.76	2054.82
G 40.0	2189.87	2210.48	2227.03	2220.35	2178.81	2175.64	2189.01	2138.81	2167.20	2236.88	2167.21	2138.79	2189.01	2167.21	2189.01
G 45.0	2217.38	2162.14	2133.48	2119.46	2095.88	2135.71	2198.82	2168.95	2168.82	2205.90	2168.80	2169.00	2198.82	2168.80	2198.82
G 50.0	2147.00	2099.79	2048.80	1996.31	1963.35	2016.28	2106.94	2109.01	2120.01	2143.83	2120.00	2109.01	2106.94	2109.01	2106.94
G 55.0	1958.16	1898.50	1827.12	1766.38	1767.69	1859.81	1971.64	1976.91	1979.85	1988.06	1979.83	1976.91	1971.64	1979.83	1971.64
G 60.0	1765.56	1684.77	1594.85	1531.35	1556.18	1658.04	1769.20	1810.87	1810.05	1804.79	1810.02	1810.94	1769.20	1810.02	1769.20
G 65.0	1502.31	1401.20	1296.75	1241.57	1308.99	1434.15	1519.51	1505.99	1503.75	1522.54	1503.71	1505.99	1519.51	1503.71	1505.99
G 70.0	1042.06	1054.79	1036.57	1012.37	1079.66	1160.75	1178.09	1113.43	1048.62	1029.97	1048.63	1113.41	1178.09	1048.63	1178.09
G 75.0	653.95	696.35	711.16	713.42	741.88	762.76	753.52	725.12	702.22	695.83	702.24	725.08	753.52	702.24	753.52
G 80.0	338.64	357.39	329.79	287.28	307.90	349.20	355.71	339.14	372.19	446.39	372.20	339.14	355.71	372.20	355.71
G 85.0	206.36	165.38	128.91	113.55	133.04	140.19	135.31	134.77	144.94	153.00	144.93	134.81	135.31	144.93	135.31
G 90.0	145.72	71.93	51.27	63.64	43.04	31.65	32.63	32.41	31.34	30.58	31.31	32.41	32.63	31.31	32.63

## Luminaire

Code 10-5076-01-H13W  
Name Portatil PREMIUM 3x18W CFL E27

## Measurem.

Code 10-5076-01-H13W  
Name Portatil PREMIUM 3x18W CFL E27

Luminaire Flux	2065 lm	Luminaire Power	54.0 W	Efficacy	38.243 lm/W	Efficiency	62.58%
Source Flux	3300 lm	Maximum value	123.55 cd/klm	Position	C=90.00 G=35.00	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	904.56	904.56	904.56	904.56	904.56	904.56	904.56	904.56	904.56	904.56	904.56	904.56	904.56
G 5.0	903.20	845.32	871.05	1024.64	1124.34	1125.06	1124.34	1024.64	871.05	845.32	903.20	968.52	994.11
G 10.0	1137.18	1211.76	1247.33	1220.22	1269.41	1346.58	1269.41	1220.22	1247.33	1211.76	1137.18	1116.31	1221.34
G 15.0	1400.06	1454.87	1511.36	1512.75	1576.51	1684.85	1576.51	1512.75	1511.36	1454.87	1400.06	1400.75	1453.25
G 20.0	1571.68	1598.69	1707.28	1950.95	2025.01	1952.56	2025.01	1950.95	1707.28	1598.69	1571.68	1594.26	1731.92
G 25.0	1752.60	1763.47	1904.12	2091.67	2153.57	2154.27	2171.01	2091.67	1904.12	1763.47	1752.60	1843.06	1938.83
G 30.0	1921.04	1940.58	2067.47	2167.67	2206.68	2207.77	2206.68	2167.67	2067.47	1940.58	1921.04	1970.47	1984.62
G 35.0	2098.74	2136.33	2175.73	2208.88	2212.57	2201.42	2212.57	2208.88	2175.73	2136.33	2098.74	2054.82	2021.57
G 40.0	2175.74	2178.55	2220.35	2228.46	2206.87	2189.87	2206.87	2228.46	2220.35	2178.55	2175.74	2189.01	2138.79
G 45.0	2135.42	2096.62	2119.46	2129.43	2172.37	2217.38	2172.37	2129.43	2119.46	2096.62	2135.42	2198.82	2169.00
G 50.0	2016.05	1963.92	1996.31	2045.65	2107.73	2147.00	2107.73	2045.65	1996.31	1963.92	2016.05	2106.94	2109.01
G 55.0	1859.53	1768.39	1766.38	1823.24	1908.30	1958.16	1908.30	1823.24	1766.38	1768.39	1859.53	1971.64	1976.91
G 60.0	1657.66	1557.14	1531.35	1589.52	1698.25	1765.56	1698.25	1589.52	1531.35	1557.14	1657.66	1769.20	1810.94
G 65.0	1433.67	1310.22	1241.57	1289.99	1418.29	1502.31	1418.29	1289.99	1241.57	1310.22	1433.67	1519.51	1505.99
G 70.0	1160.85	1079.42	1012.37	1036.57	1046.47	1042.06	1046.47	1036.57	1012.37	1079.42	1160.85	1178.09	1113.41
G 75.0	762.99	741.30	713.42	710.04	688.28	653.95	688.28	710.04	713.42	741.30	762.99	753.52	725.08
G 80.0	349.33	307.57	287.28	331.61	347.03	338.64	347.03	331.61	287.28	307.57	349.33	355.71	339.14
G 85.0	140.19	133.55	113.55	126.10	172.48	206.36	172.48	126.10	113.55	133.55	140.19	135.31	134.81
G 90.0	31.65	44.06	63.64	56.30	86.12	145.72	86.12	56.30	63.64	44.06	31.65	32.63	32.41

## Luminaire

Code 10-5076-01-H13W  
Name Portatil PREMIUM 3x18W CFL E27

## Measurem.

Code 10-5076-01-H13W  
Name Portatil PREMIUM 3x18W CFL E27

Luminaire Flux	2065 lm	Luminaire Power	54.0 W	Efficacy	38.243 lm/W	Efficiency	62.58%
Source Flux	3300 lm	Maximum value	123.55 cd/klm	Position	C=90.00 G=35.00	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	904.56	904.56	904.56	904.56	904.56	904.56	904.56	904.56	904.56	904.56
G 5.0	946.32	893.48	946.31	994.13	968.52	903.09	845.59	871.05	1023.14	1104.09
G 10.0	1341.42	1386.70	1341.47	1221.25	1116.31	1137.70	1210.43	1247.33	1227.55	1250.90
G 15.0	1647.89	1813.64	1647.96	1453.11	1400.75	1400.78	1453.04	1511.36	1512.75	1550.99
G 20.0	1971.09	2125.50	1971.04	1732.04	1594.26	1571.05	1600.28	1707.28	1942.19	2047.16
G 25.0	2035.81	2091.34	2035.79	1938.87	1843.06	1752.38	1764.01	1904.12	2088.67	2153.57
G 30.0	2102.88	2286.46	2102.88	1984.62	1970.47	1921.00	1940.67	2067.47	2167.19	2199.18
G 35.0	2149.76	2296.25	2149.75	2057.10	2054.82	2098.65	2136.55	2175.73	2207.66	2215.66
G 40.0	2167.21	2236.88	2167.20	2138.81	2189.01	2175.64	2178.81	2220.35	2227.03	2210.48
G 45.0	2168.80	2205.90	2168.82	2168.95	2198.82	2135.71	2095.88	2119.46	2133.48	2162.14
G 50.0	2120.00	2143.83	2120.01	2109.01	2106.94	2016.28	1963.35	1996.31	2048.80	2099.79
G 55.0	1979.83	1988.06	1979.85	1976.91	1971.64	1859.81	1767.69	1766.38	1827.12	1898.50
G 60.0	1810.02	1804.79	1810.05	1810.87	1769.20	1658.04	1556.18	1531.35	1594.85	1684.77
G 65.0	1503.71	1522.54	1503.75	1505.99	1519.51	1434.15	1308.99	1241.57	1296.75	1401.20
G 70.0	1048.63	1029.97	1048.62	1113.43	1178.09	1160.75	1079.66	1012.37	1036.57	1054.79
G 75.0	702.24	695.83	702.22	725.12	753.52	762.76	741.88	713.42	711.16	696.35
G 80.0	372.20	446.39	372.19	339.14	355.71	349.20	307.90	287.28	329.79	357.39
G 85.0	144.93	153.00	144.94	134.77	135.31	140.19	133.04	113.55	128.91	165.38
G 90.0	31.31	30.58	31.34	32.41	32.63	31.65	43.04	63.64	51.27	71.93

## Luminaire

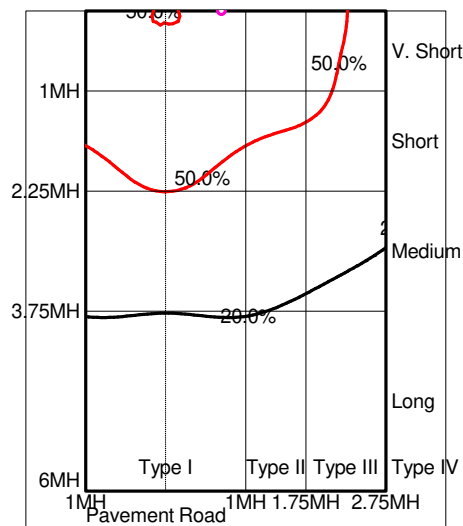
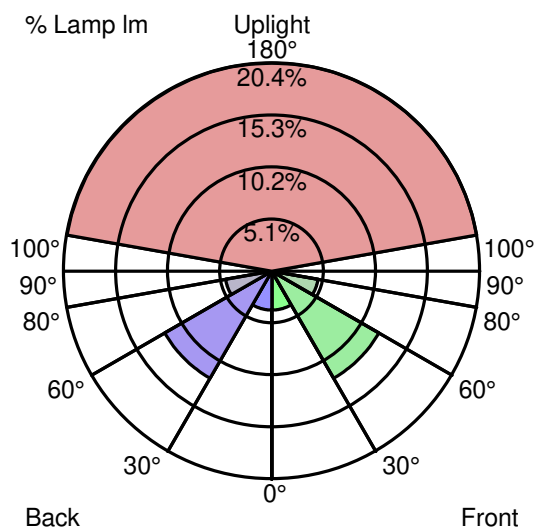
Code 10-5076-01-H13W  
Name Portatil PREMIUM 3x18W CFL E27

## Measurem.

Code 10-5076-01-H13W  
Name Portatil PREMIUM 3x18W CFL E27

Luminaire Flux	2065 lm	Luminaire Power	54.0 W	Efficacy	38.243 lm/W	Efficiency	62.58%
Source Flux	3300 lm	Maximum value	123.55 cd/klm	Position	C=90.00 G=35.00	CG	Asymmetrical

## US ROAD STANDARDS



Luminaire Classification System (LCS)				
LCS Zone		Lumens	%Lamp	%Lum
FL	0° -- 30°	126.0 lm	3.8 %	6.1 %
FM	30° -- 60°	400.5 lm	12.1 %	19.4 %
FH	60° -- 80°	152.1 lm	4.6 %	7.4 %
FVH	80° -- 90°	9.3 lm	0.3 %	0.4 %
BL	0° -- 30°	126.0 lm	3.8 %	6.1 %
BM	30° -- 60°	400.5 lm	12.1 %	19.4 %
BH	60° -- 80°	152.1 lm	4.6 %	7.4 %
BVH	80° -- 90°	9.3 lm	0.3 %	0.5 %
UL	90° -- 100°	15.3 lm	0.5 %	0.7 %
UH	100° -- 180°	673.9 lm	20.4 %	32.6 %
TOTALS		2065.1 lm	62.6 %	100.0 %
BUG B1 U4 G0 Type VS Very Short Quadrilateral Symmetry				