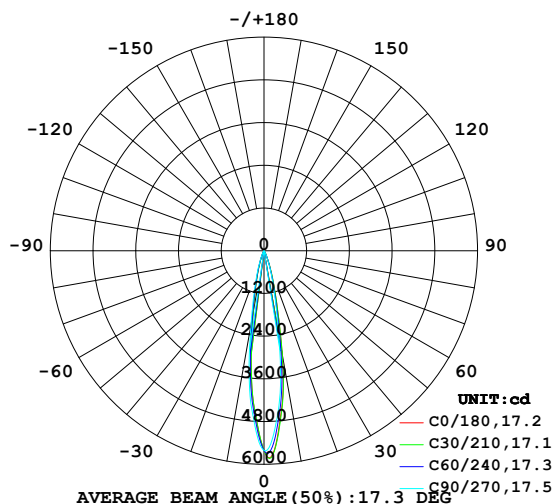


LUMINAIRE PHOTOMETRIC TEST REPORT

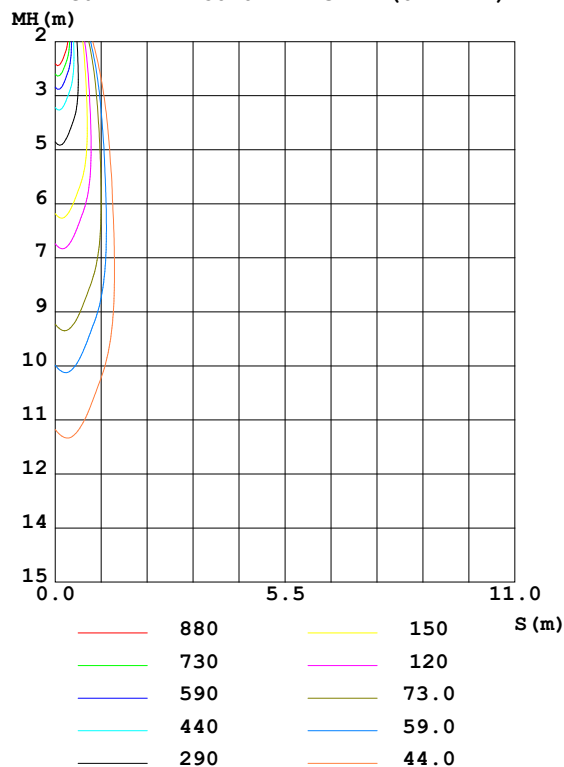
Test:U:221.0V I:0.0657A P:13.87W PF:0.9545 Freq:49.90Hz Lamp Flux:761.01x1 lm		
NAME: PURE Art-15W-927-18D	TYPE:Tracklight	SERIAL No.:
SPEC.:2700K	DIM.: \varnothing 55mm*H150mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 54.88 lm/W			
MODEL	CITIZEN-2700K	I _{max} (cd)	5838	S/MH (C0/180)	0.26
NOMINAL POWER (W)	15	LOR (%)	100.0	S/MH (C90/270)	0.29
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	761.01	η UP,DN (C0-180)	0.0,53.0
NOMINAL FLUX (lm)	761.01	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,47.0
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	1.00

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Jasoan
 Test Date:2022-05-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:58%
 Test Distance:8.967m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	2940	2807	2413	1986	1787	1826	2114	2677	0- 10	353.1	353.1	46.4,46.4
20	517.6	489.7	456.9	384.1	308.6	312.6	393.3	501.4	10- 20	285.2	638.3	83.9,83.9
30	84.85	86.52	84.71	72.94	55.91	62.05	71.48	88.37	20- 30	85.41	723.7	95.1,95.1
40	23.31	22.49	20.15	19.17	17.41	17.64	18.17	21.88	30- 40	24.63	748.3	98.3,98.3
50	7.969	7.170	6.456	5.513	4.719	5.170	5.522	7.122	40- 50	9.176	757.5	99.5,99.5
60	1.857	1.764	1.334	0.8981	0.7718	0.9086	1.144	1.701	50- 60	2.948	760.5	99.9,99.9
70	0.1352	0.0994	0.0734	0.0917	0.0726	0.0862	0.1101	0.0969	60- 70	0.4313	760.9	100,100
80	0.0674	0.0418	0.0262	0.0419	0.0312	0.0418	0.0577	0.0445	70- 80	0.0660	761.0	100,100
90	0.0312	0.0287	0.0262	0.0314	0.0312	0.0314	0.0315	0.0314	80- 90	0.0394	761.0	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 754.04 lm

%lum = 99.1%

%lamp = 99.1%

Conical surface Flux(120deg): 760.47 lm

%lum = 99.9%

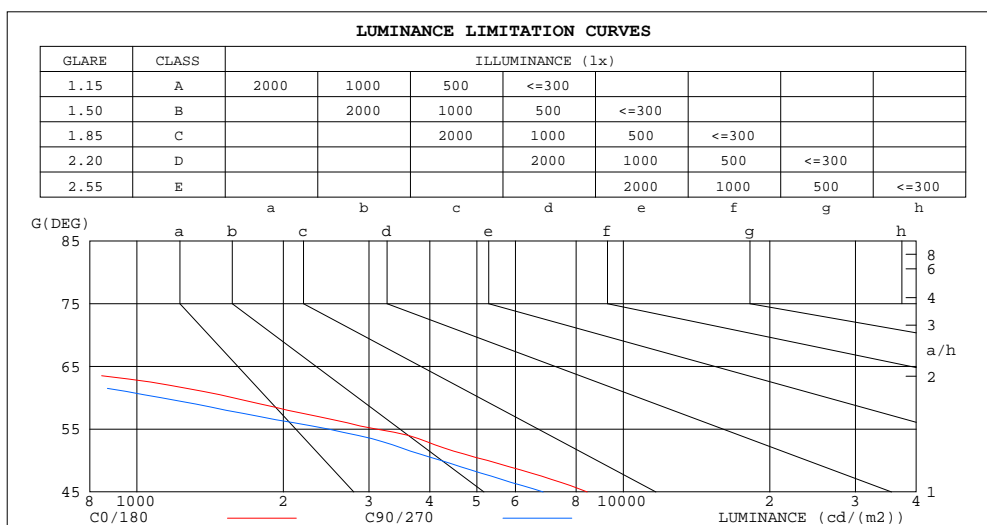
%lamp = 99.9%

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jasoan
Test Date:2022-05-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
Test Distance:8.967m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:221.0V I:0.0657A P:13.87W PF:0.9545 Freq:49.90Hz Lamp Flux:761.01x1 lm		
NAME: PURE Art-15W-927-18D	TYPE:Tracklight	SERIAL No.:
SPEC.:2700K	DIM.: ϕ 55mm*H150mm	
MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	227	126
80	165	63
75	145	51
70	168	90
65	487	203
60	1574	1121
55	3104	2476
50	5254	4217
45	8426	6842

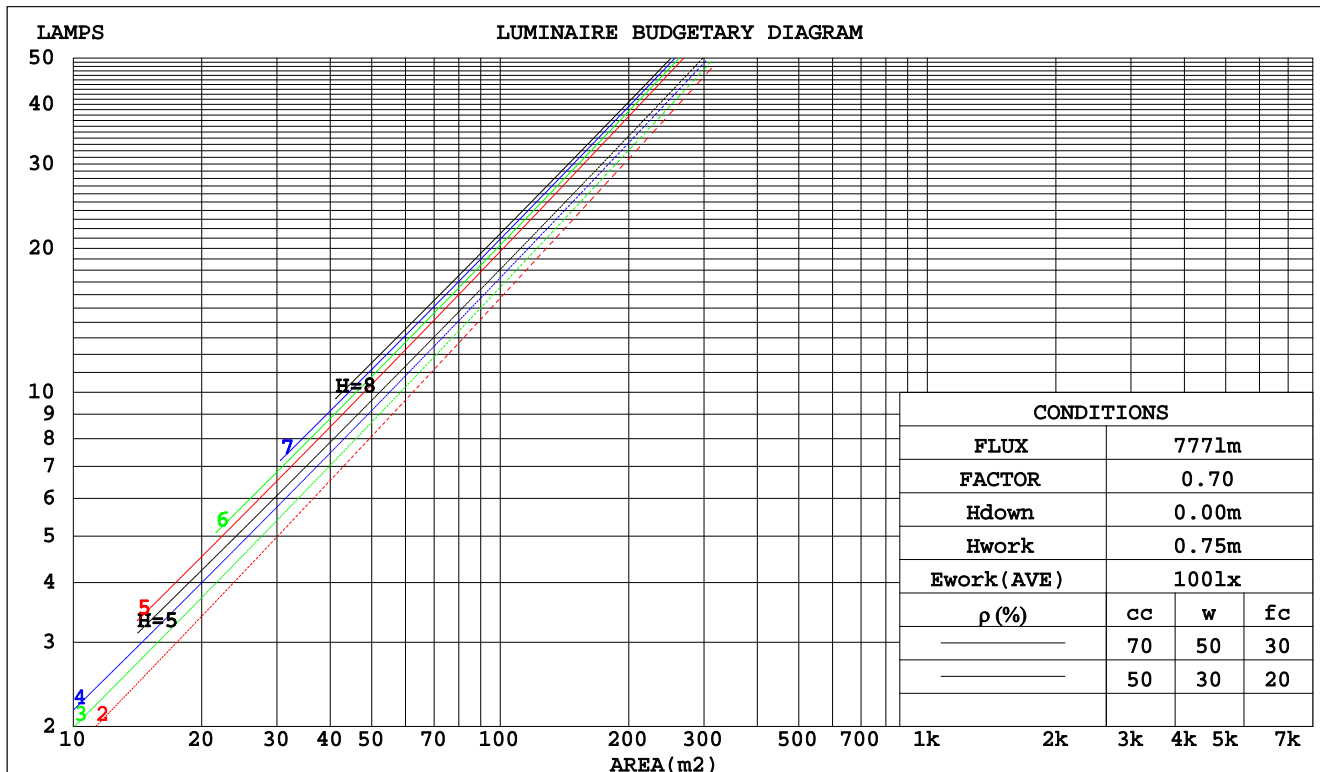
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jasoan
Test Date:2022-05-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
Test Distance:8.967m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:221.0V I:0.0657A P:13.87W PF:0.9545 Freq:49.90Hz Lamp Flux:761.01x1 lm		
NAME: PURE Art-15W-927-18D	TYPE:Tracklight	SERIAL No.:
SPEC.:2700K	DIM.: ϕ 55mm*H150mm	
MFR.: NEKO LIGHTING AG		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.13	1.12	1.10	1.11	1.10	1.08	1.07	1.06	1.05	1.04	1.03	1.02	1.00	.00	.99	.97
2.0	1.08	1.06	1.03	1.07	1.04	1.02	1.04	1.02	.00	1.01	.99	.98	.98	.97	.96	.94
3.0	1.04	1.01	.98	1.03	.00	.97	1.01	.98	.96	.98	.96	.95	.96	.95	.93	.92
4.0	1.01	.97	.94	.00	.96	.94	.98	.95	.93	.96	.93	.92	.94	.92	.91	.89
5.0	.97	.94	.91	.97	.93	.90	.95	.92	.90	.94	.91	.89	.92	.90	.88	.87
6.0	.95	.91	.88	.94	.90	.88	.93	.89	.87	.91	.89	.87	.90	.88	.86	.85
7.0	.92	.88	.85	.91	.88	.85	.90	.87	.85	.89	.86	.84	.88	.86	.84	.83
8.0	.90	.86	.83	.89	.86	.83	.88	.85	.83	.87	.85	.82	.87	.84	.82	.81
9.0	.87	.84	.81	.87	.83	.81	.86	.83	.81	.86	.83	.81	.85	.82	.80	.80
10.0	.85	.82	.79	.85	.82	.79	.84	.81	.79	.84	.81	.79	.83	.81	.79	.78



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jasoan
Test Date:2022-05-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
Test Distance:8.967m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:221.0V I:0.0657A P:13.87W PF:0.9545 Freq:49.90Hz Lamp Flux:761.01x1 lm		
NAME: PURE Art-15W-927-18D	TYPE:Tracklight	SERIAL No.:
SPEC.:2700K	DIM.: \varnothing 55mm*H150mm	
MFR.: NEKO LIGHTING AG		

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.129	.073	.023	.123	.070	.022	.110	.063	.020	.099	.057	.018	.088	.051	.017		
2.0	.119	.065	.020	.114	.063	.019	.104	.058	.018	.094	.053	.017	.086	.048	.015		
3.0	.110	.059	.018	.106	.057	.017	.098	.053	.016	.090	.049	.015	.083	.046	.014		
4.0	.103	.054	.016	.099	.052	.015	.092	.049	.015	.086	.046	.014	.080	.043	.013		
5.0	.097	.049	.014	.094	.048	.014	.088	.046	.013	.082	.043	.013	.077	.041	.012		
6.0	.091	.046	.013	.088	.045	.013	.083	.043	.012	.078	.041	.012	.074	.039	.012		
7.0	.086	.043	.012	.084	.042	.012	.079	.040	.012	.075	.039	.011	.071	.037	.011		
8.0	.082	.040	.011	.080	.039	.011	.076	.038	.011	.072	.037	.011	.069	.035	.010		
9.0	.078	.038	.011	.076	.037	.010	.073	.036	.010	.070	.035	.010	.067	.034	.010		
10.0	.075	.036	.010	.073	.035	.010	.070	.034	.010	.067	.033	.009	.064	.032	.009		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.168	.158	.149	.144	.135	.128	.098	.093	.088	.057	.054	.051	.018	.017	.017	
2.0	.149	.133	.119	.128	.114	.103	.088	.079	.072	.050	.046	.042	.016	.015	.014	
3.0	.134	.113	.097	.115	.098	.084	.079	.068	.059	.045	.040	.035	.015	.013	.011	
4.0	.121	.098	.080	.104	.084	.070	.071	.059	.049	.041	.034	.029	.013	.011	.010	
5.0	.110	.085	.067	.094	.074	.058	.065	.052	.041	.038	.030	.024	.012	.010	.008	
6.0	.101	.075	.057	.087	.065	.049	.060	.046	.035	.035	.027	.021	.011	.009	.007	
7.0	.093	.067	.049	.080	.058	.042	.055	.041	.030	.032	.024	.018	.010	.008	.006	
8.0	.086	.060	.042	.074	.052	.037	.051	.037	.026	.030	.022	.015	.010	.007	.005	
9.0	.080	.054	.037	.069	.047	.032	.048	.033	.023	.028	.020	.013	.009	.006	.004	
10.0	.075	.049	.032	.065	.043	.028	.045	.030	.020	.026	.018	.012	.009	.006	.004	

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Jasoan
 Test Date:2022-05-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:58%
 Test Distance:8.967m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:221.0V I:0.0657A P:13.87W PF:0.9545 Freq:49.90Hz Lamp Flux:761.01x1 lm										
NAME: PURE Art-15W-927-18D					TYPE:Tracklight			SERIAL No.:		
SPEC.:2700K					DIM.: \varnothing 55mm*H150mm					
MFR.: NEKO LIGHTING AG										
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	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	10.5	11.1	10.7	11.3	11.4	9.9	10.5	10.1	10.7	10.8
3H	10.4	11.0	10.6	11.1	11.3	9.8	10.3	10.0	10.5	10.7
4H	10.3	10.9	10.6	11.1	11.3	9.7	10.2	10.0	10.4	10.6
6H	10.2	10.8	10.5	11.0	11.2	9.6	10.1	9.9	10.4	10.6
8H	10.2	10.7	10.5	10.9	11.2	9.6	10.1	9.9	10.3	10.6
12H	10.2	10.6	10.5	10.9	11.2	9.5	10.0	9.8	10.3	10.5
4H 2H	10.4	10.9	10.6	11.1	11.3	9.8	10.3	10.0	10.5	10.7
3H	10.2	10.7	10.5	10.9	11.2	9.6	10.1	9.9	10.3	10.6
4H	10.1	10.5	10.4	10.8	11.1	9.5	9.9	9.8	10.2	10.5
6H	10.0	10.4	10.4	10.7	11.1	9.4	9.8	9.8	10.1	10.4
8H	10.0	10.3	10.3	10.7	11.0	9.3	9.7	9.7	10.0	10.4
12H	9.9	10.2	10.3	10.6	11.0	9.3	9.6	9.7	10.0	10.4
8H 4H	9.9	10.3	10.3	10.7	11.0	9.3	9.7	9.7	10.0	10.4
6H	9.8	10.1	10.3	10.5	10.9	9.2	9.5	9.6	9.9	10.3
8H	9.8	10.0	10.2	10.5	10.9	9.2	9.4	9.6	9.8	10.3
12H	9.7	9.9	10.2	10.4	10.8	9.1	9.3	9.6	9.8	10.2
12H 4H	9.9	10.2	10.3	10.6	11.0	9.3	9.6	9.7	10.0	10.4
6H	9.8	10.0	10.2	10.5	10.9	9.2	9.4	9.6	9.8	10.3
8H	9.7	9.9	10.2	10.4	10.8	9.1	9.3	9.6	9.8	10.2
Variations with the observer position at spacings:										
S = 1.0H	+ 2.6 / - 6.6					+ 2.4 / - 7.5				
1.5H	+ 3.8 / - 4.6					+ 3.5 / - 4.2				
2.0H	+ 5.1 / - 8.9					+ 4.6 / - 9.1				

CIE Pub.117, 761.0 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -0.9$)

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jasoan
Test Date:2022-05-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
Test Distance:8.967m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:221.0V I:0.0657A P:13.87W PF:0.9545 Freq:49.90Hz Lamp Flux:761.01x1 lm		
NAME: PURE Art-15W-927-18D	TYPE:Tracklight	SERIAL No.:
SPEC.:2700K	DIM.: \varnothing 55mm*H150mm	
MFR.: NEKO LIGHTING AG		

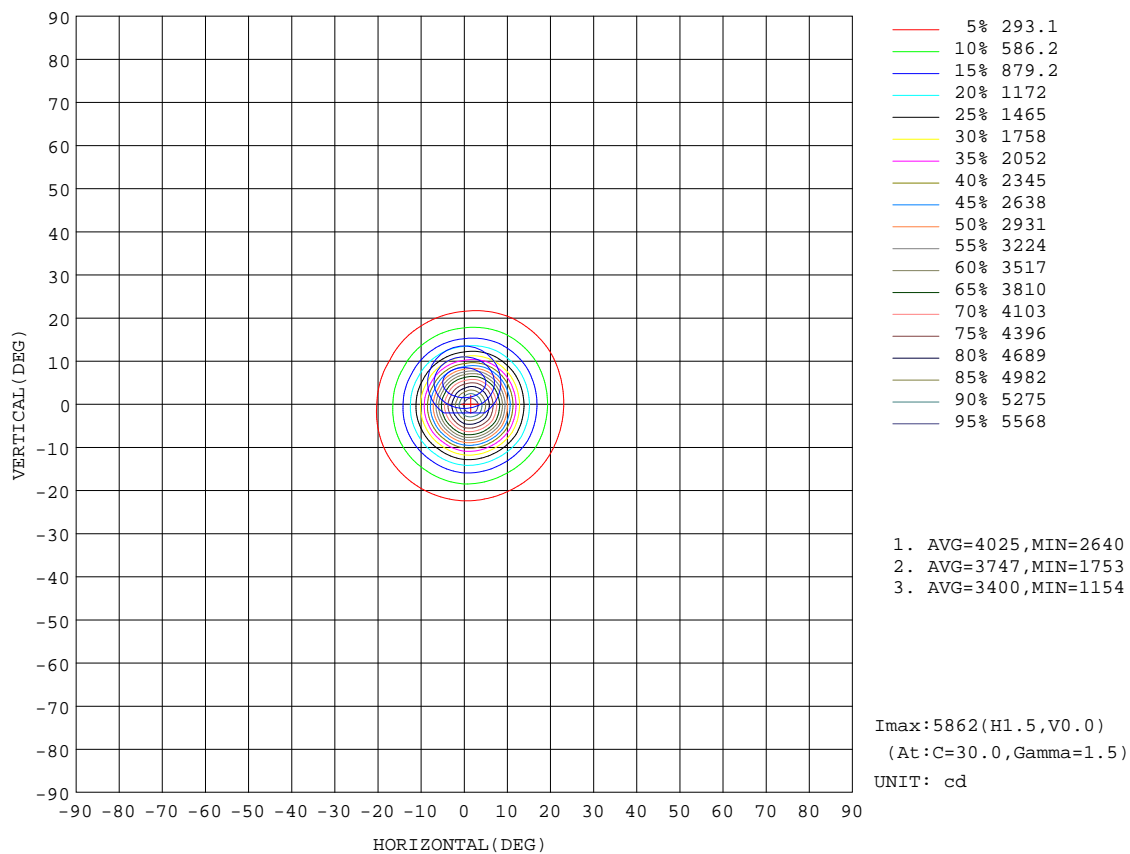
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	91	85	81	90	85	81	89	84	81	78
0.80	98	92	89	97	92	89	96	91	88	85
1.00	101	96	93	101	96	93	99	96	92	89
1.25	105	100	97	104	100	97	102	99	96	92
1.50	107	103	100	106	102	100	104	101	99	94
2.00	110	106	103	108	105	102	106	103	101	96
2.50	111	108	105	110	106	104	107	104	102	97
3.00	113	109	107	111	108	106	108	105	104	97
4.00	114	112	110	112	110	109	109	107	106	99
5.00	116	114	112	114	112	110	110	108	107	100
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jasoan
Test Date:2022-05-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
Test Distance:8.967m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:221.0V I:0.0657A P:13.87W PF:0.9545 Freq:49.90Hz Lamp Flux:761.01x1 lm		
NAME: PURE Art-15W-927-18D	TYPE:Tracklight	SERIAL No.:
SPEC.:2700K	DIM.: ϕ 55mm*H150mm	
MFR.: NEKO LIGHTING AG		

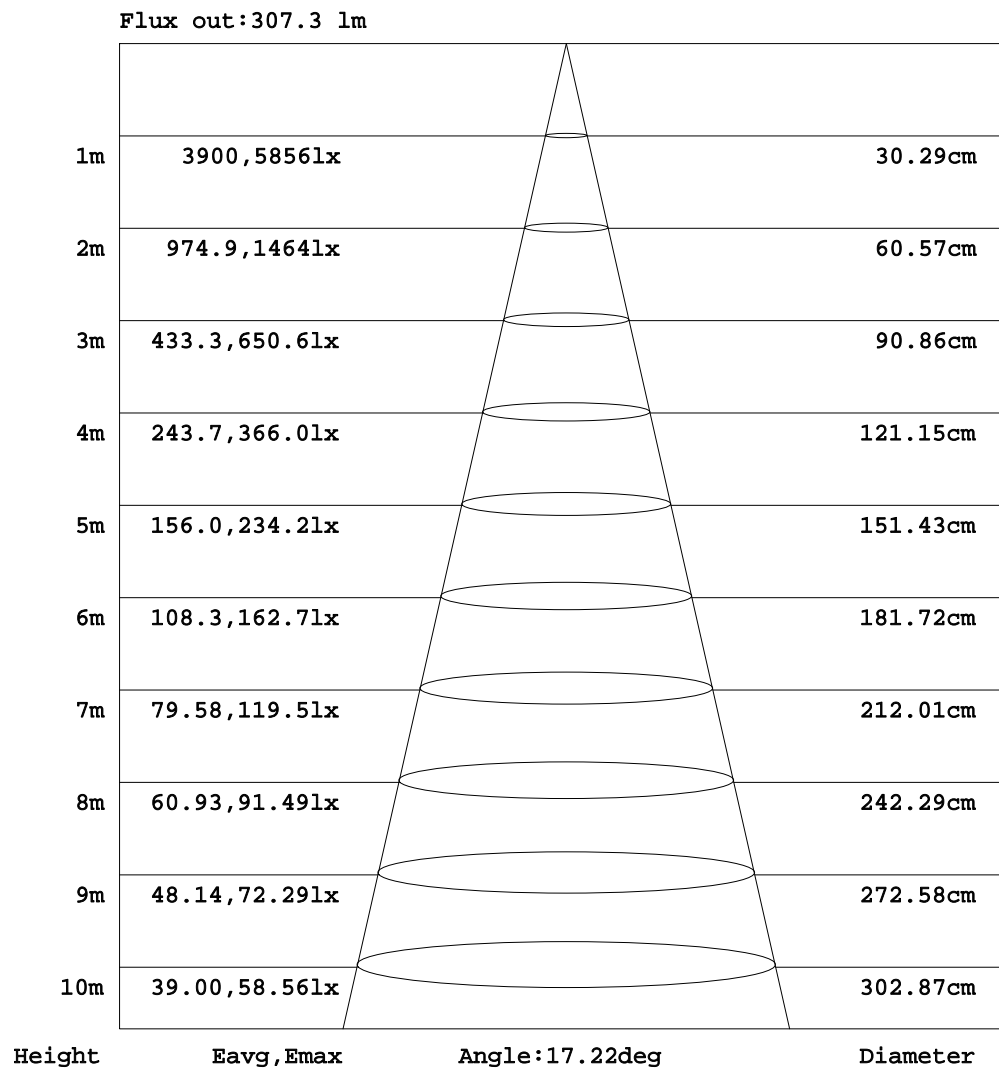


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jasoan
Test Date:2022-05-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
Test Distance:8.967m [K=1.0000]
Remarks:

AAI Figure

Test:U:221.0V I:0.0657A P:13.87W PF:0.9545 Freq:49.90Hz Lamp Flux:761.01x1 lm		
NAME: PURE Art-15W-927-18D	TYPE:Tracklight	SERIAL No.:
SPEC.:2700K	DIM.: ϕ 55mm*H150mm	
MFR.: NEKO LIGHTING AG		



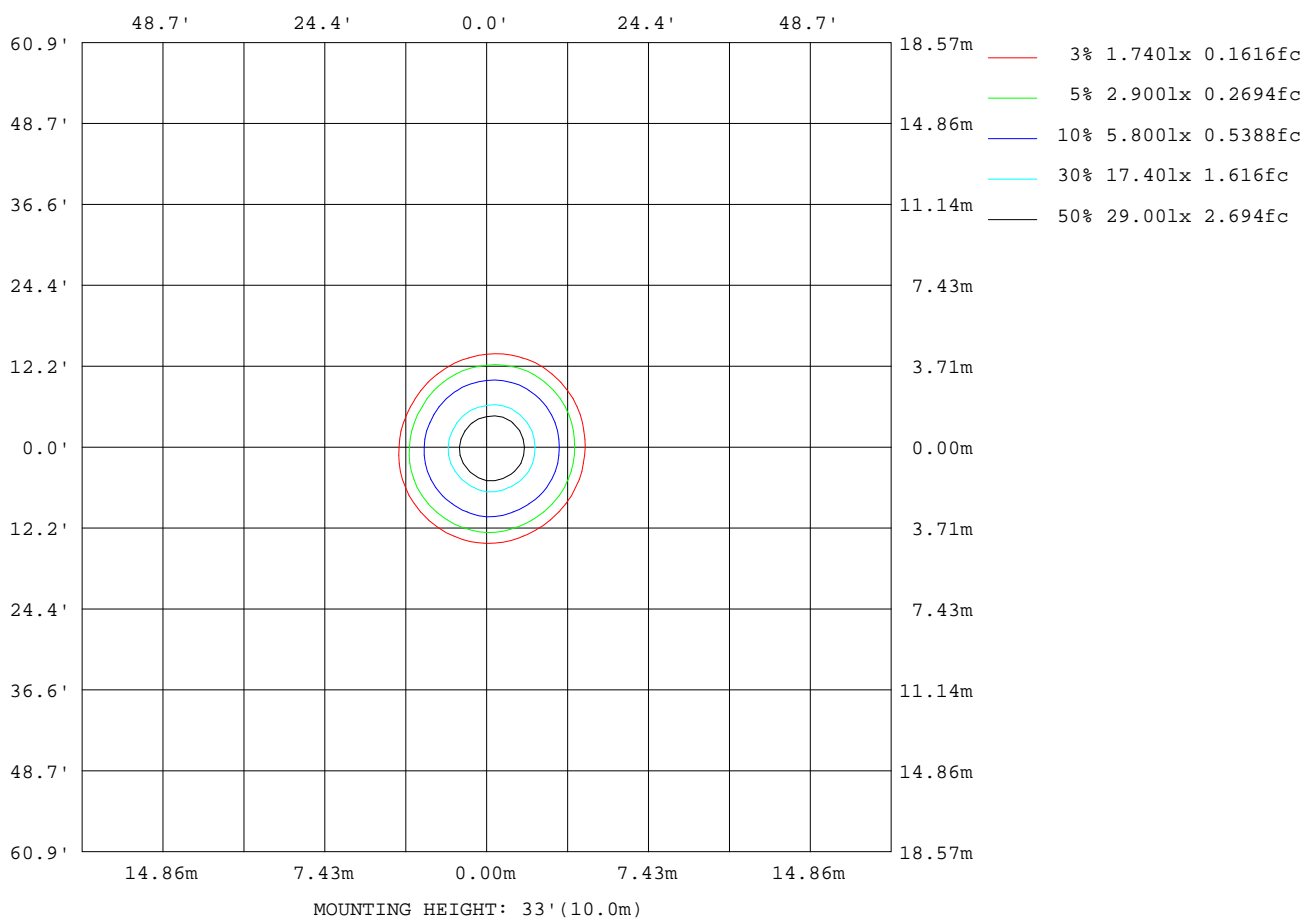
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jasoan
Test Date:2022-05-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
Test Distance:8.967m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:221.0V I:0.0657A P:13.87W PF:0.9545 Freq:49.90Hz Lamp Flux:761.01x1 lm		
NAME: PURE Art-15W-927-18D	TYPE:Tracklight	SERIAL No.:
SPEC.:2700K	DIM.: ϕ 55mm*H150mm	
MFR.: NEKO LIGHTING AG		



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jasoan
Test Date:2022-05-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
Test Distance:8.967m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:221.0V I:0.0657A P:13.87W PF:0.9545 Freq:49.90Hz Lamp Flux:761.01x1 lm		
NAME: PURE Art-15W-927-18D	TYPE:Tracklight	SERIAL No.:
SPEC.:2700K	DIM.: ϕ 55mm*H150mm	
MFR.: NEKO LIGHTING AG		

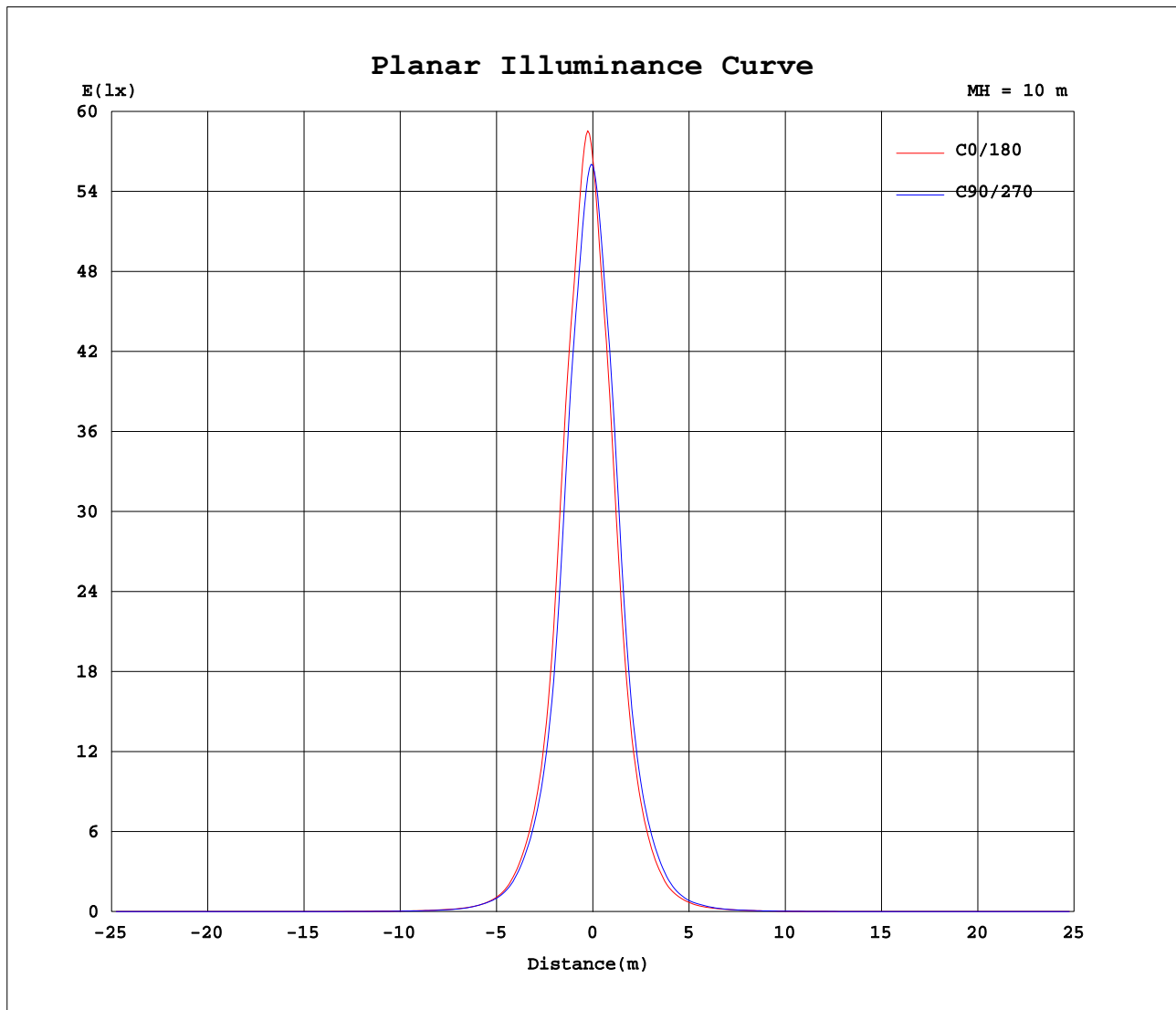
AvgL	cd/m2
L_0~180 (65) av	317
L_0~180 (75) av	97
L_0~180 (85) av	188
L_90~270 (65) av	209
L_90~270 (75) av	81
L_90~270 (85) av	152
L_45 (65) av	259
L_45 (75) av	94
L_45 (85) av	174

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jasoan
Test Date:2022-05-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
Test Distance:8.967m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jasoan
Test Date: 2022-05-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 8.967m [K=1.0000]
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
Test Distance:8.967m [K=1.0000]
Remarks:

```