

SJSC-8W-927-36°



Light Output Ratio:	100.0%	
Luminaire Power:	8.3 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.60	fine grid method.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2021-12-21

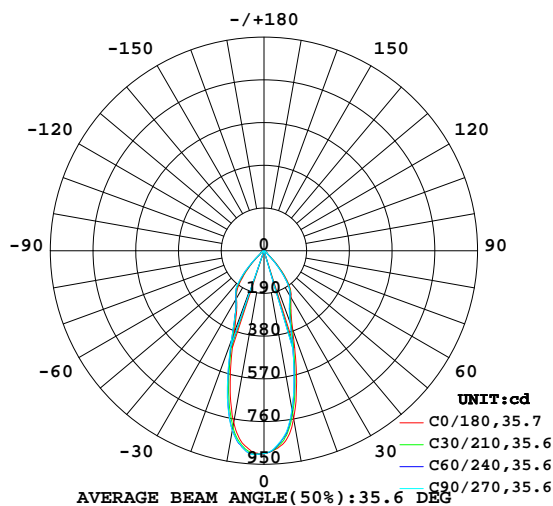
γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 8.967m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

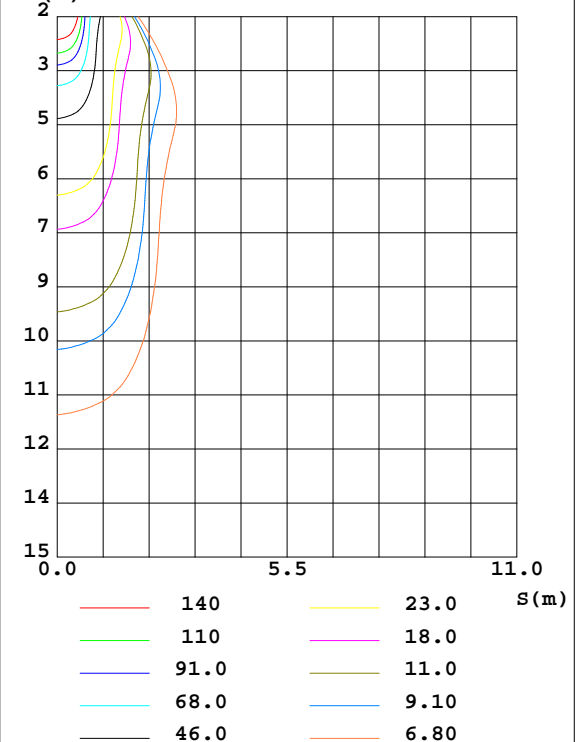
Test:U:220.8V I:0.0398A P:8.300W PF:0.9434 Freq:50.09Hz Lamp Flux:572.2x1 lm		
NAME: SJSC-8W-927-36°	TYPE:Outdoor Light	SERIAL No.:
SPEC.:2700K	DIM.: 135x135x60mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 68.94 lm/W			
MODEL	2700K	I _{max} (cd)	908.9	S/MH(C0/180)	0.60
NOMINAL POWER(W)	8	LOR(%)	100.0	S/MH(C90/270)	0.63
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	572.20	η UP,DN(C0-180)	0.0,47.0
NOMINAL FLUX(lm)	572.2	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,53.0
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	0.60

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
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Operators:Jason
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γ Range: 0 - 90DEG
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ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	760.1	730.6	716.6	740.3	775.4	800.4	811.0	799.2	0- 10	80.22	80.22	14,14
20	373.0	352.8	341.4	355.8	388.0	412.2	424.6	408.2	10- 20	155.8	236.0	41.2,41.2
30	241.0	234.1	231.3	235.6	245.6	252.2	249.1	248.2	20- 30	134.0	370.1	64.7,64.7
40	133.6	120.8	112.8	119.6	136.6	154.5	162.9	148.8	30- 40	123.6	493.6	86.3,86.3
50	21.75	20.35	19.99	21.08	22.26	23.42	26.27	24.09	40- 50	50.49	544.1	95.1,95.1
60	10.34	9.723	9.707	10.07	10.61	11.18	12.11	11.69	50- 60	14.19	558.3	97.6,97.6
70	5.960	5.658	5.679	5.618	5.795	6.163	6.449	6.347	60- 70	7.806	566.1	98.9,98.9
80	3.299	2.701	2.518	2.809	3.343	3.761	4.048	3.735	70- 80	5.292	571.4	99.9,99.9
90	0.0155	0.0156	0.0209	0.0158	0.0414	0.0365	0.0366	0.0368	80- 90	0.8088	572.2	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): 529.52 lm

%lum = 92.5%

%lamp = 92.5%

Conical surface Flux(120deg): 558.29 lm

%lum = 97.6%

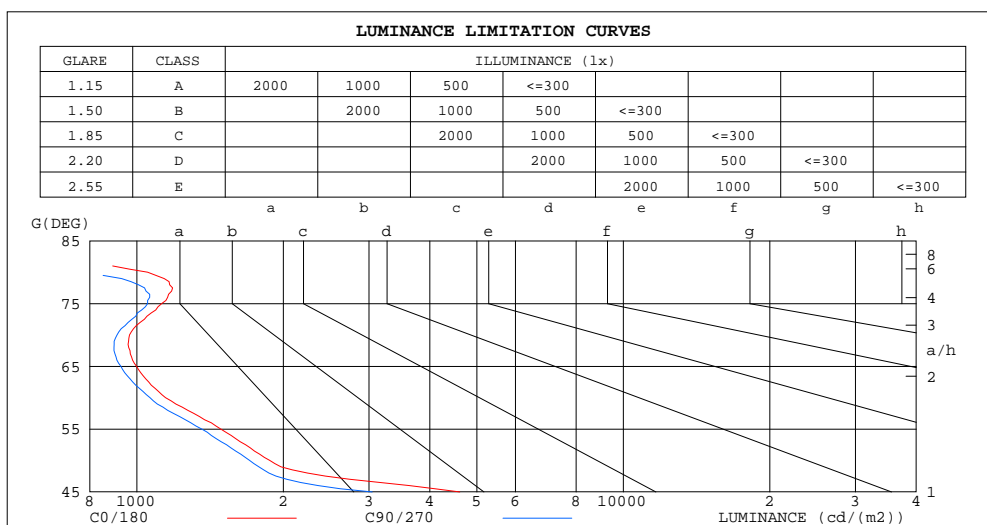
%lamp = 97.6%

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Operators:Jason
Test Date:2021-12-21

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:220.8V I:0.0398A P:8.300W PF:0.9434 Freq:50.09Hz Lamp Flux:572.2x1 lm		
NAME: SJSC-8W-927-36°	TYPE:Outdoor Light	SERIAL No.:
SPEC.:2700K	DIM.: 135x135x60mm	
MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	90	83
80	1052	795
75	1125	1052
70	965	910
65	998	927
60	1145	1064
55	1488	1360
50	1875	1704
45	4609	3047

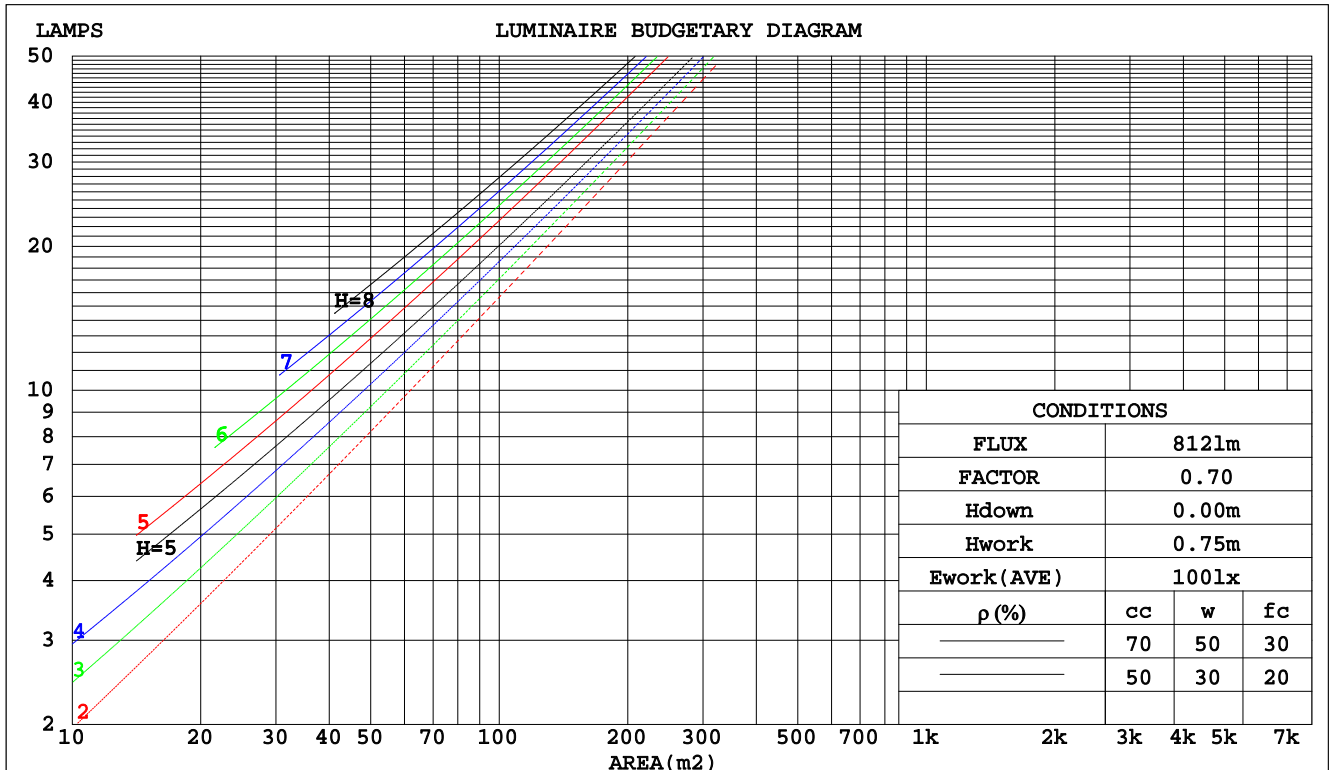
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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NAME: SJSC-8W-927-36°	TYPE:Outdoor Light	SERIAL No.:
SPEC.:2700K	DIM.: 135x135x60mm	
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	Coefficients of Utilization(CU)															
	RCR:Room Cavity Ratio															
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	1.00
1.0	1.10	1.08	1.05	1.08	1.06	1.04	1.04	1.02	1.00	1.00	.99	.97	.97	.96	.95	.93
2.0	1.02	.98	.94	1.00	.97	.93	.97	.94	.91	.94	.92	.89	.91	.89	.87	.86
3.0	.95	.90	.86	.94	.89	.85	.91	.87	.84	.88	.85	.82	.86	.83	.81	.79
4.0	.88	.83	.78	.87	.82	.78	.85	.81	.77	.83	.79	.76	.81	.78	.75	.74
5.0	.83	.77	.72	.82	.76	.72	.80	.75	.71	.78	.74	.71	.77	.73	.70	.69
6.0	.78	.72	.67	.77	.71	.67	.75	.70	.66	.74	.69	.66	.73	.69	.65	.64
7.0	.73	.67	.63	.72	.67	.62	.71	.66	.62	.70	.65	.62	.69	.65	.61	.60
8.0	.69	.63	.59	.68	.63	.59	.67	.62	.58	.66	.61	.58	.65	.61	.58	.56
9.0	.65	.59	.55	.65	.59	.55	.64	.58	.55	.63	.58	.55	.62	.58	.54	.53
10.0	.62	.56	.52	.61	.56	.52	.61	.55	.52	.60	.55	.52	.59	.55	.52	.50



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WEC AND CCEC

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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	.188	.107	.034	.181	.103	.033	.168	.097	.031	.157	.090	.029	.146	.085	.027		
2.0	.180	.098	.030	.174	.096	.030	.163	.091	.028	.153	.086	.027	.144	.082	.026		
3.0	.170	.091	.027	.165	.089	.027	.156	.085	.026	.148	.081	.025	.140	.078	.024		
4.0	.161	.084	.025	.157	.082	.024	.149	.079	.024	.142	.076	.023	.135	.073	.022		
5.0	.153	.078	.023	.149	.077	.022	.143	.074	.022	.136	.072	.021	.130	.070	.021		
6.0	.145	.073	.021	.142	.072	.021	.136	.070	.020	.131	.068	.020	.125	.066	.020		
7.0	.138	.068	.019	.136	.068	.019	.130	.066	.019	.125	.064	.019	.120	.063	.018		
8.0	.132	.064	.018	.129	.064	.018	.125	.062	.018	.120	.061	.018	.116	.059	.017		
9.0	.126	.061	.017	.124	.060	.017	.119	.059	.017	.115	.058	.017	.112	.057	.016		
10.0	.120	.058	.016	.118	.057	.016	.114	.056	.016	.111	.055	.016	.107	.054	.015		

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	.172	.157	.144	.147	.135	.124	.101	.093	.086	.058	.054	.050	.019	.017	.016	
2.0	.157	.132	.112	.135	.114	.096	.092	.079	.067	.053	.046	.039	.017	.015	.013	
3.0	.145	.114	.088	.125	.098	.077	.086	.068	.054	.049	.040	.032	.016	.013	.010	
4.0	.135	.099	.071	.116	.086	.062	.080	.060	.044	.046	.035	.026	.015	.011	.008	
5.0	.127	.088	.059	.109	.076	.051	.075	.053	.036	.043	.031	.021	.014	.010	.007	
6.0	.119	.078	.049	.102	.068	.043	.071	.047	.030	.041	.028	.018	.013	.009	.006	
7.0	.113	.071	.041	.097	.061	.036	.067	.043	.026	.039	.025	.015	.013	.008	.005	
8.0	.107	.065	.036	.092	.056	.031	.064	.039	.022	.037	.023	.013	.012	.008	.004	
9.0	.102	.059	.031	.087	.052	.027	.061	.036	.019	.035	.021	.011	.011	.007	.004	
10.0	.097	.055	.027	.083	.048	.024	.058	.034	.017	.034	.020	.010	.011	.007	.003	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2021-12-21

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:220.8V I:0.0398A P:8.300W PF:0.9434 Freq:50.09Hz Lamp Flux:572.2x1 lm										
NAME: SJSC-8W-927-36°					TYPE:Outdoor Light			SERIAL No.:		
SPEC.:2700K					DIM.: 135x135x60mm					
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	15.4	16.4	15.6	16.6	16.7	14.9	15.8	15.1	16.0	16.2
3H	15.4	16.4	15.7	16.6	16.8	14.9	15.8	15.2	16.0	16.2
4H	15.5	16.4	15.8	16.6	16.8	15.0	15.9	15.3	16.1	16.3
6H	15.6	16.4	15.9	16.7	16.9	15.1	15.9	15.4	16.1	16.4
8H	15.6	16.4	15.9	16.7	16.9	15.0	15.8	15.4	16.1	16.3
12H	15.6	16.3	15.9	16.6	16.9	15.0	15.7	15.3	16.0	16.3
4H 2H	15.2	16.1	15.5	16.3	16.6	14.7	15.6	15.0	15.8	16.0
3H	15.4	16.1	15.7	16.4	16.7	14.9	15.6	15.2	15.9	16.2
4H	15.6	16.2	15.9	16.5	16.8	15.1	15.7	15.4	16.0	16.3
6H	15.8	16.3	16.1	16.7	17.0	15.2	15.8	15.6	16.1	16.5
8H	15.8	16.3	16.1	16.7	17.0	15.2	15.7	15.6	16.1	16.5
12H	15.7	16.2	16.1	16.6	17.0	15.1	15.6	15.6	16.0	16.4
8H 4H	15.5	16.1	15.9	16.5	16.8	15.1	15.6	15.5	16.0	16.3
6H	15.8	16.3	16.2	16.7	17.1	15.3	15.7	15.7	16.1	16.5
8H	15.8	16.2	16.3	16.6	17.1	15.3	15.7	15.7	16.1	16.5
12H	15.8	16.1	16.2	16.5	17.0	15.2	15.5	15.7	16.0	16.5
12H 4H	15.5	16.0	15.9	16.4	16.8	15.0	15.5	15.5	15.9	16.3
6H	15.8	16.2	16.2	16.6	17.0	15.3	15.7	15.7	16.1	16.5
8H	15.8	16.1	16.2	16.6	17.0	15.2	15.6	15.7	16.0	16.5
Variations with the observer position at spacings:										
S = 1.0H	+ 2.3 / - 3.8					+ 2.2 / - 3.6				
1.5H	+ 4.3 / - 3.5					+ 4.3 / - 3.2				
2.0H	+ 4.1 / - 1.4					+ 2.5 / - 1.0				

CIE Pub.117, 572.2 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -1.9$)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
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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:220.8V I:0.0398A P:8.300W PF:0.9434 Freq:50.09Hz Lamp Flux:572.2x1 lm		
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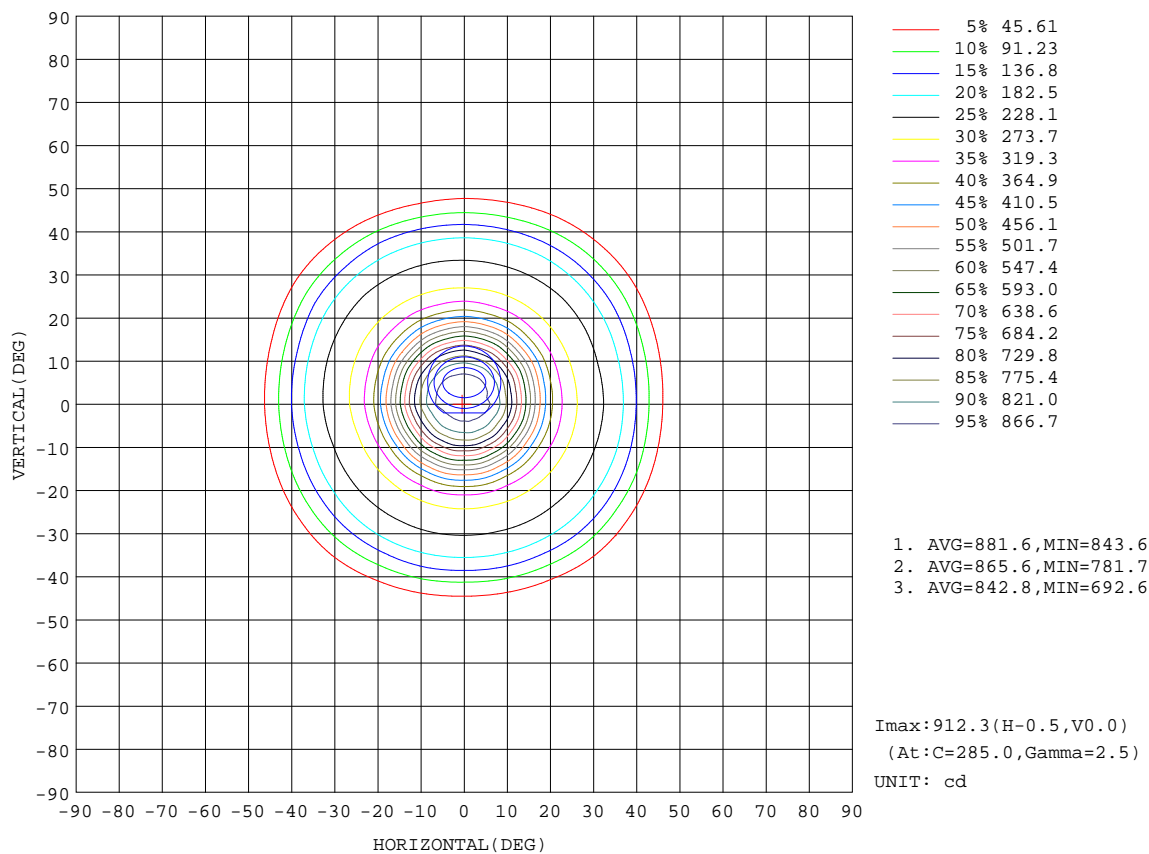
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	83	76	72	82	76	71	82	75	71	67
0.80	91	84	80	90	84	80	89	83	80	75
1.00	96	90	86	95	89	86	94	89	85	81
1.25	101	95	91	100	94	91	98	93	90	85
1.50	104	98	95	102	98	94	100	96	93	88
2.00	107	102	99	106	101	98	103	99	96	91
2.50	109	105	101	107	103	100	104	101	99	92
3.00	111	107	104	109	105	103	105	103	101	94
4.00	113	110	107	111	108	106	107	105	103	96
5.00	114	112	110	112	110	108	108	106	105	97
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

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ISOCANDELA DIAGRAM

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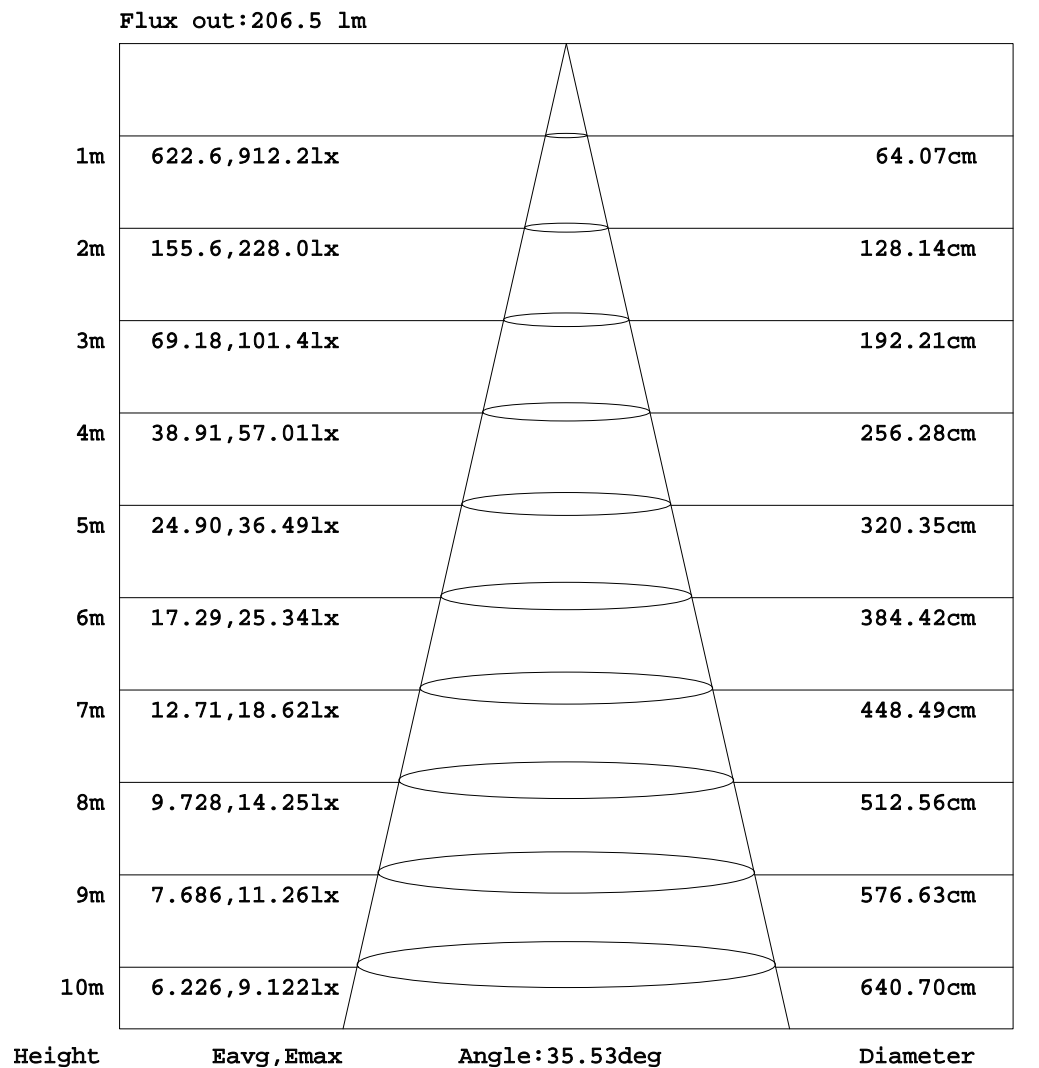


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AAI Figure

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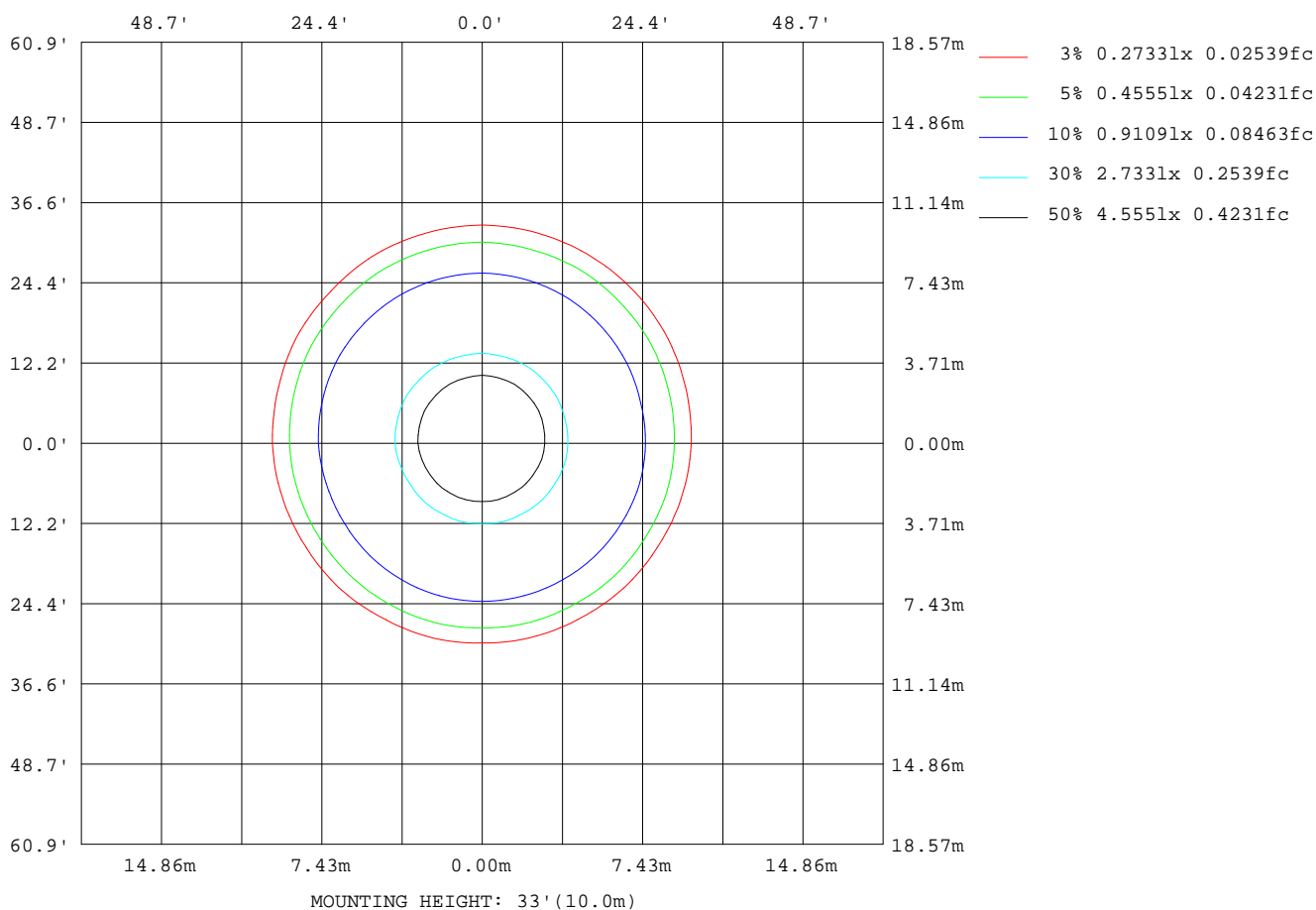
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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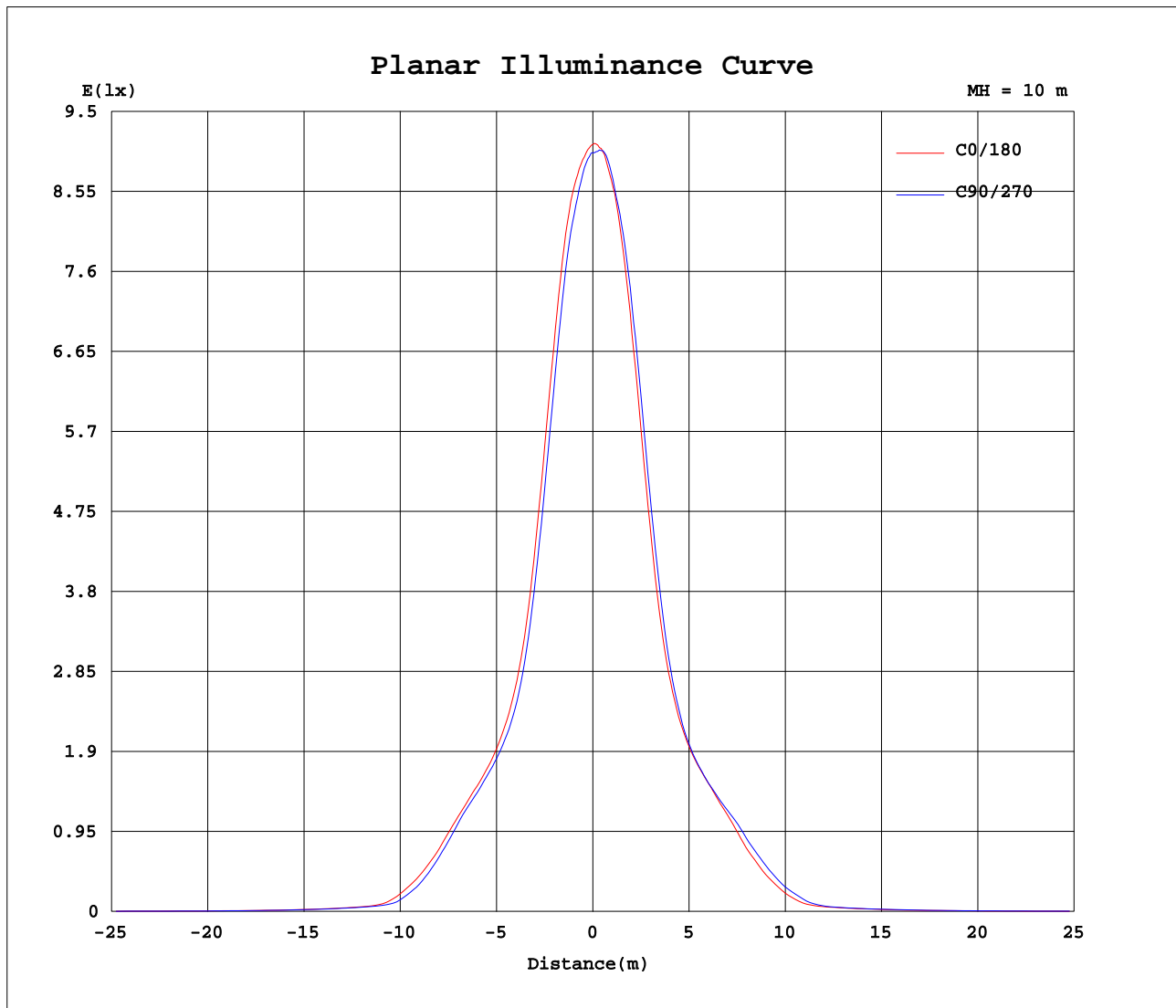
AvgL	cd/m2
L_0~180(65)av	985
L_0~180(75)av	1088
L_0~180(85)av	114
L_90~270(65)av	1015
L_90~270(75)av	1127
L_90~270(85)av	102
L_45(65)av	996
L_45(75)av	1100
L_45(85)av	101

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2021-12-21

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: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2021-12-21

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:

```

```

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:

```