

SJDC-16W-927-36°



Light Output Ratio:	100.0%	
Luminaire Power:	15.95 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

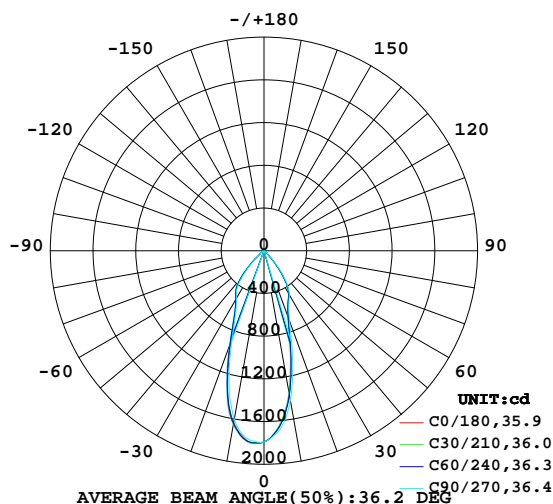
γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 8.967m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

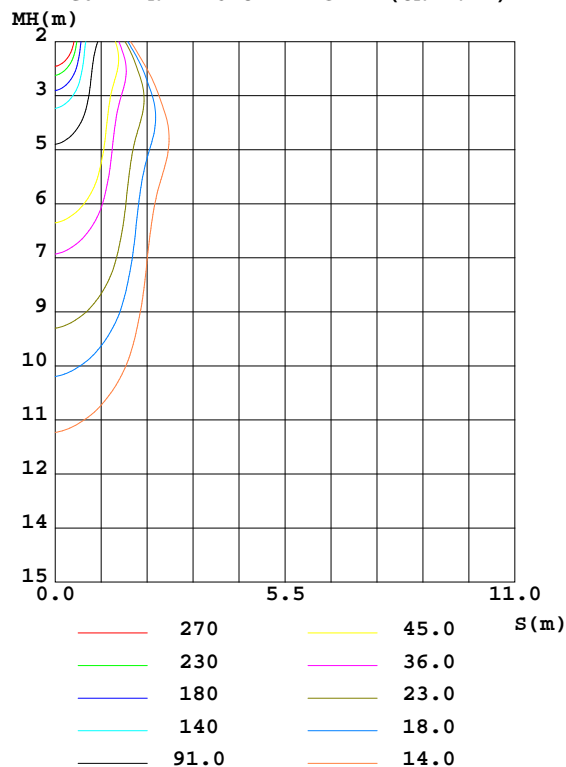
Test:U:220.8V I:0.0757A P:15.95W PF:0.9548 Freq:50.09Hz Lamp Flux:1158.39x1 lm		
NAME: SJDC-16W-927-36°	TYPE:Outdoor Light	SERIAL No.:
SPEC.:2700K	DIM.: 224x135x60mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 72.61 lm/W			
MODEL	2700K	I _{max} (cd)	1809	S/MH(C0/180)	0.66
NOMINAL POWER(W)	10	LOR(%)	100.0	S/MH(C90/270)	0.65
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	1158.4	η UP,DN(C0-180)	0.0,46.6
NOMINAL FLUX(lm)	1158.39	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,53.4
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
C Interval: 15.0DEG
Test Speed: HIGH
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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	1369	1362	1423	1553	1634	1643	1602	1477	0- 10	157.6	157.6	13.6,13.6
20	669.1	659.3	702.1	809.1	913.3	931.0	872.0	745.8	10- 20	313.2	470.9	40.6,40.6
30	463.3	461.1	474.9	506.0	529.8	531.6	518.6	487.2	20- 30	277.1	748.0	64.6,64.6
40	196.6	186.4	221.0	279.2	336.5	346.6	313.6	255.9	30- 40	247.2	995.2	85.9,85.9
50	40.16	40.37	42.94	49.02	57.03	61.71	58.01	44.43	40- 50	102.0	1097	94.7,94.7
60	19.63	19.66	21.08	24.37	27.03	27.13	25.90	21.73	50- 60	30.38	1128	97.3,97.3
70	12.33	12.33	13.16	13.89	14.77	14.62	13.90	12.69	60- 70	17.15	1145	98.8,98.8
80	3.797	3.962	5.648	8.352	10.25	9.756	8.088	5.693	70- 80	11.80	1157	99.8,99.8
90	0.0617	0.0624	0.0577	0.0632	0.0977	0.0884	0.0891	0.0895	80- 90	1.852	1158	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): 1065.7 lm

%lum = 92.0%

%lamp = 92.0%

Conical surface Flux(120deg): 1127.6 lm

%lum = 97.3%

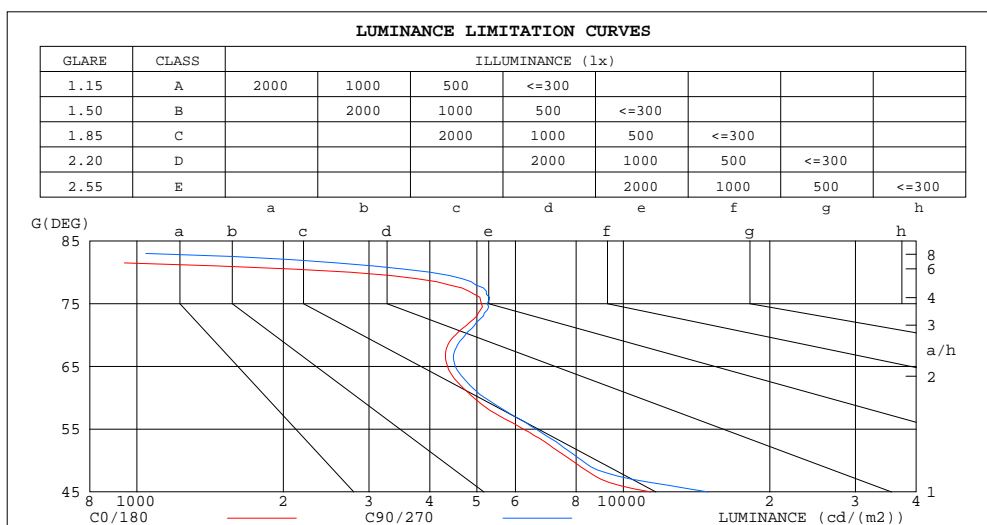
%lamp = 97.3%

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:

LUMINANCE LIMITATION CURVES

Test:U:220.8V I:0.0757A P:15.95W PF:0.9548 Freq:50.09Hz Lamp Flux:1158.39x1 lm		
NAME: SJDC-16W-927-36°	TYPE:Outdoor Light	SERIAL No.:
SPEC.:2700K	DIM.: 224x135x60mm	
MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	253	469
80	2743	4003
75	5105	5248
70	4521	4735
65	4351	4514
60	4925	5188
55	6224	6611
50	7836	8222
45	11391	14934

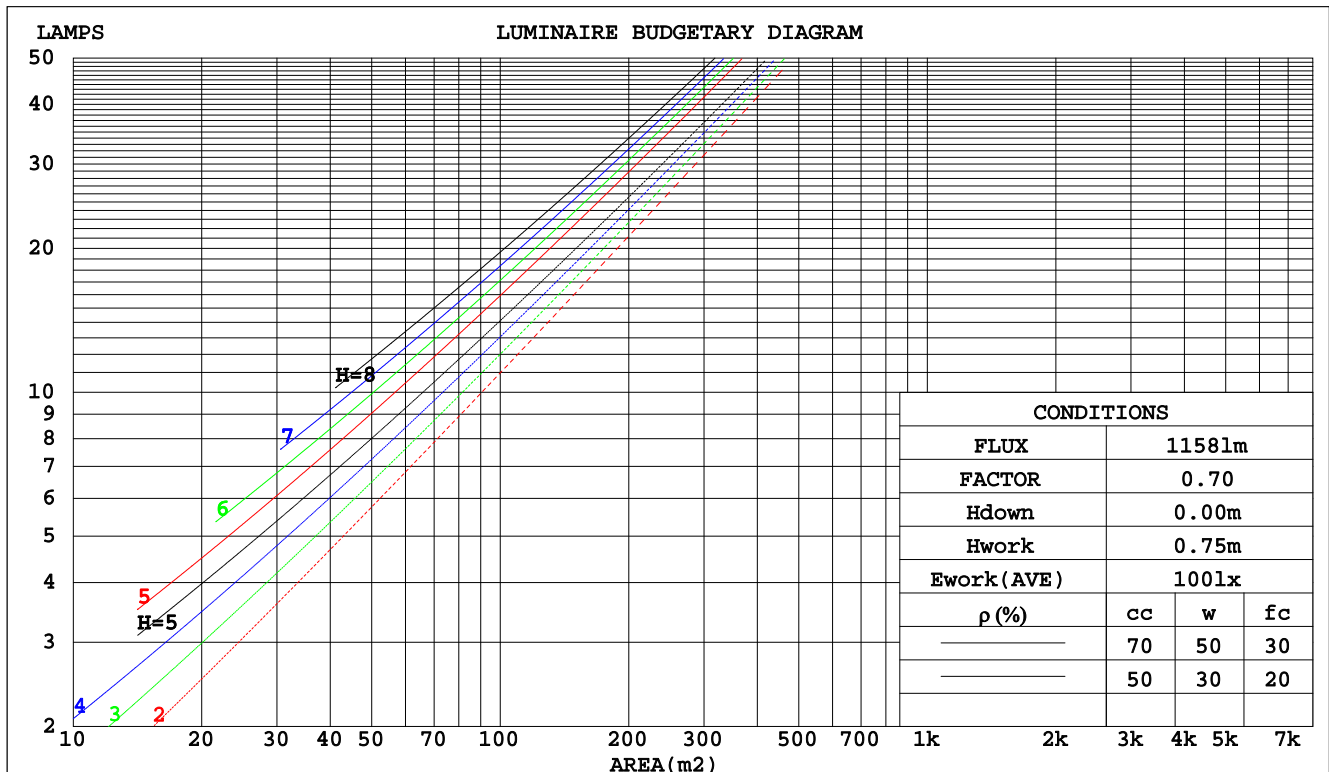
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.:2700K	DIM.: 224x135x60mm	
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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	1.00
1.0	1.10	1.08	1.05	1.08	1.06	1.03	1.04	1.02	1.00	1.00	.99	.97	.97	.96	.94	.93
2.0	1.02	.98	.94	1.00	.96	.93	.97	.94	.91	.94	.91	.89	.91	.89	.87	.86
3.0	.95	.89	.85	.93	.88	.85	.91	.87	.83	.88	.85	.82	.86	.83	.81	.79
4.0	.88	.82	.78	.87	.82	.78	.85	.80	.77	.83	.79	.76	.81	.78	.75	.73
5.0	.83	.76	.72	.82	.76	.72	.80	.75	.71	.78	.74	.70	.76	.73	.70	.68
6.0	.77	.71	.67	.77	.71	.67	.75	.70	.66	.74	.69	.66	.72	.68	.65	.64
7.0	.73	.67	.62	.72	.66	.62	.71	.66	.62	.70	.65	.61	.68	.64	.61	.60
8.0	.69	.62	.58	.68	.62	.58	.67	.62	.58	.66	.61	.58	.65	.61	.57	.56
9.0	.65	.59	.55	.64	.59	.55	.63	.58	.54	.62	.58	.54	.62	.57	.54	.53
10.0	.61	.56	.52	.61	.55	.52	.60	.55	.51	.59	.55	.51	.59	.54	.51	.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	.189	.108	.034	.182	.104	.033	.170	.097	.031	.158	.091	.029	.147	.085	.028		
2.0	.181	.099	.030	.175	.097	.030	.165	.092	.028	.155	.087	.027	.146	.082	.026		
3.0	.172	.091	.027	.167	.089	.027	.158	.085	.026	.149	.082	.025	.141	.078	.024		
4.0	.163	.084	.025	.158	.083	.024	.150	.080	.024	.143	.077	.023	.136	.074	.023		
5.0	.154	.079	.023	.150	.077	.022	.144	.075	.022	.137	.072	.022	.131	.070	.021		
6.0	.146	.073	.021	.143	.072	.021	.137	.070	.020	.131	.068	.020	.126	.066	.020		
7.0	.139	.069	.020	.136	.068	.019	.131	.066	.019	.126	.065	.019	.121	.063	.019		
8.0	.133	.065	.018	.130	.064	.018	.125	.063	.018	.121	.061	.018	.117	.060	.017		
9.0	.127	.061	.017	.124	.061	.017	.120	.059	.017	.116	.058	.017	.112	.057	.016		
10.0	.121	.058	.016	.119	.057	.016	.115	.056	.016	.111	.055	.016	.108	.054	.016		

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	.111	.135	.114	.096	.092	.079	.067	.053	.046	.039	.017	.015	.013		
3.0	.146	.114	.088	.125	.098	.076	.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	.103	.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	.035	.092	.056	.031	.064	.039	.022	.037	.023	.013	.012	.008	.004		
9.0	.102	.059	.031	.088	.052	.027	.061	.036	.019	.035	.021	.011	.011	.007	.004		
10.0	.097	.055	.027	.084	.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:0.0757A P:15.95W PF:0.9548 Freq:50.09Hz Lamp Flux:1158.39x1 lm										
NAME: SJDC-16W-927-36°					TYPE:Outdoor Light			SERIAL No.:		
SPEC.:2700K					DIM.: 224x135x60mm					
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	17.0	18.0	17.2	18.2	18.3	17.2	18.2	17.4	18.4	18.6
3H	17.1	18.0	17.4	18.2	18.4	17.4	18.3	17.6	18.5	18.7
4H	17.3	18.2	17.6	18.4	18.6	17.5	18.4	17.8	18.6	18.8
6H	17.4	18.2	17.7	18.4	18.7	17.6	18.4	17.9	18.7	18.9
8H	17.3	18.1	17.6	18.4	18.6	17.6	18.4	17.9	18.6	18.9
12H	17.3	18.0	17.6	18.3	18.6	17.6	18.3	17.9	18.6	18.9
4H 2H	16.9	17.7	17.2	18.0	18.2	17.1	18.0	17.4	18.2	18.4
3H	17.1	17.9	17.5	18.2	18.4	17.4	18.1	17.7	18.4	18.7
4H	17.4	18.1	17.8	18.4	18.7	17.6	18.3	18.0	18.6	18.9
6H	17.6	18.2	18.0	18.5	18.9	17.8	18.4	18.2	18.8	19.1
8H	17.5	18.1	17.9	18.4	18.8	17.8	18.4	18.2	18.7	19.1
12H	17.5	18.0	17.9	18.4	18.8	17.8	18.3	18.2	18.6	19.0
8H 4H	17.5	18.0	17.9	18.4	18.7	17.7	18.2	18.1	18.6	18.9
6H	17.6	18.1	18.1	18.5	18.9	17.9	18.4	18.3	18.8	19.2
8H	17.6	18.0	18.0	18.4	18.9	17.9	18.3	18.3	18.7	19.1
12H	17.5	17.9	18.0	18.3	18.8	17.8	18.2	18.3	18.6	19.1
12H 4H	17.4	17.9	17.8	18.3	18.7	17.6	18.1	18.0	18.5	18.9
6H	17.6	18.0	18.1	18.4	18.9	17.9	18.3	18.3	18.7	19.1
8H	17.6	17.9	18.0	18.3	18.8	17.8	18.2	18.3	18.6	19.1
Variations with the observer position at spacings:										
S = 1.0H	+ 2.3 / - 3.1					+ 2.4 / - 3.0				
1.5H	+ 4.3 / - 2.6					+ 4.4 / - 2.6				
2.0H	+ 1.7 / - 0.9					+ 2.7 / - 1.1				

CIE Pub.117, 1158 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 0.5$)

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C Interval: 15.0DEG
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Temperature:25.3DEG
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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:0.0757A P:15.95W PF:0.9548 Freq:50.09Hz Lamp Flux:1158.39x1 lm		
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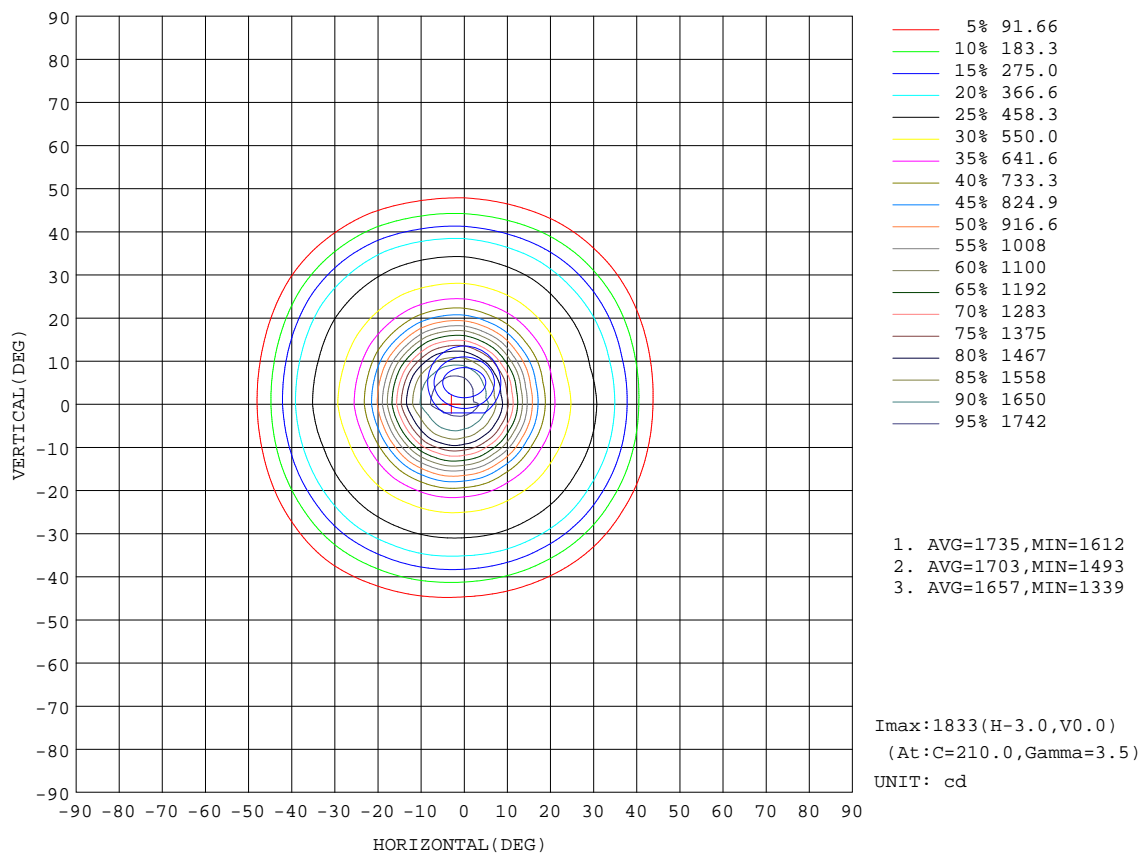
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	83	76	71	82	75	71	81	75	71	67
0.80	91	84	80	90	84	80	89	83	79	75
1.00	96	90	86	95	89	85	93	89	85	80
1.25	101	95	91	99	94	90	97	93	90	85
1.50	104	98	94	102	97	94	100	96	93	88
2.00	107	102	99	105	101	98	103	99	96	91
2.50	109	105	101	107	103	100	104	101	98	92
3.00	111	107	104	109	105	103	105	103	100	94
4.00	113	110	107	111	108	106	107	105	103	96
5.00	114	112	109	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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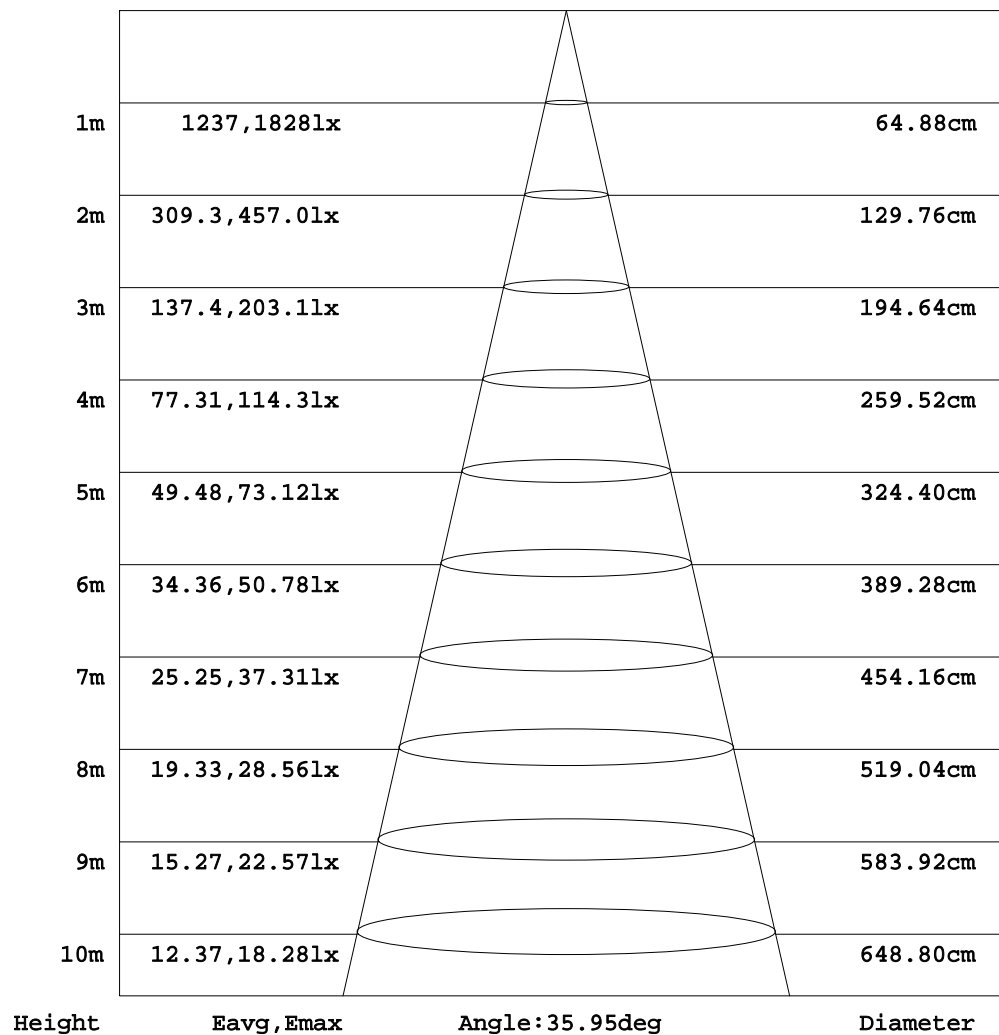
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AAI Figure

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SPEC.:2700K	DIM.: 224x135x60mm	
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Flux out:410.3 lm



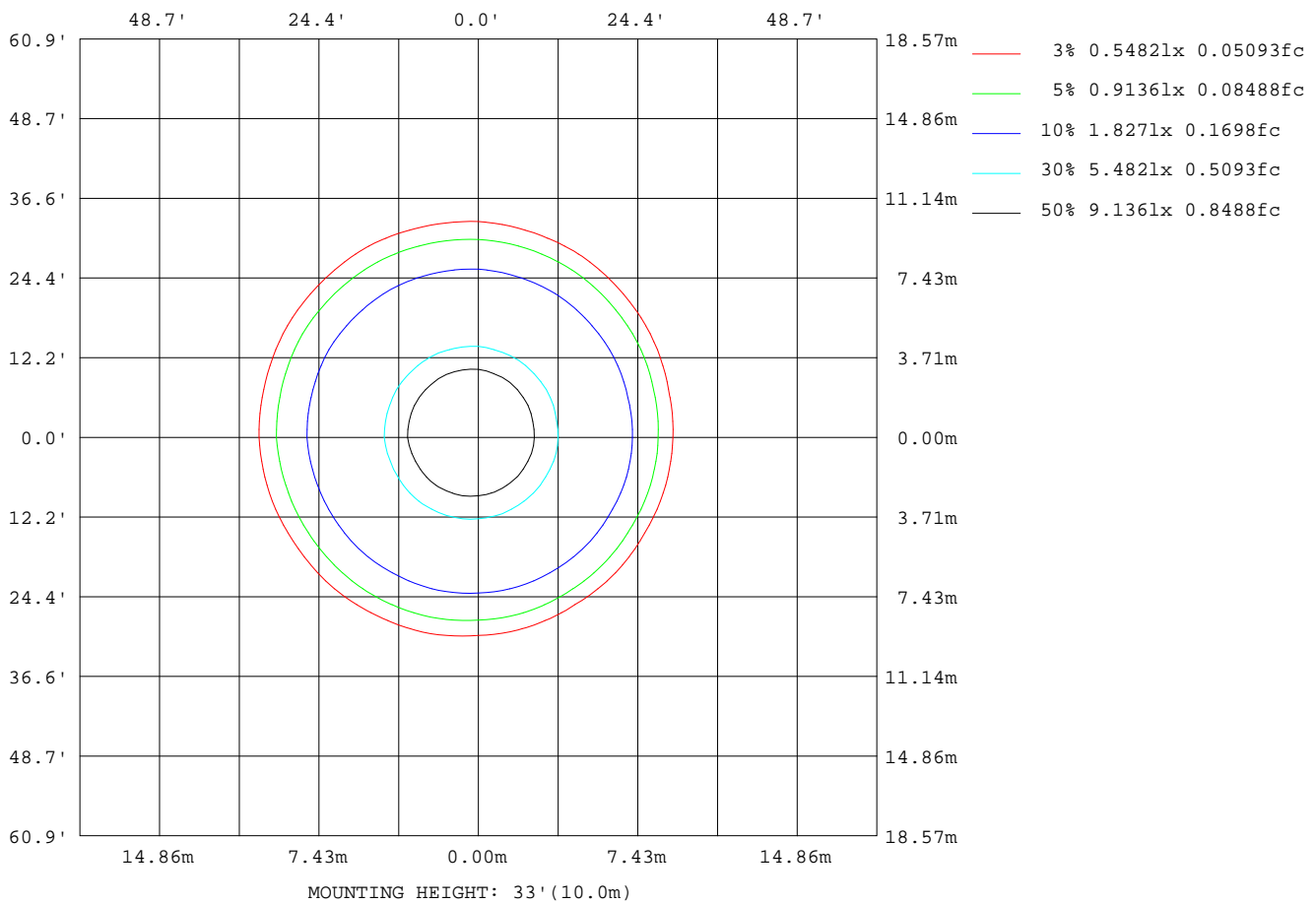
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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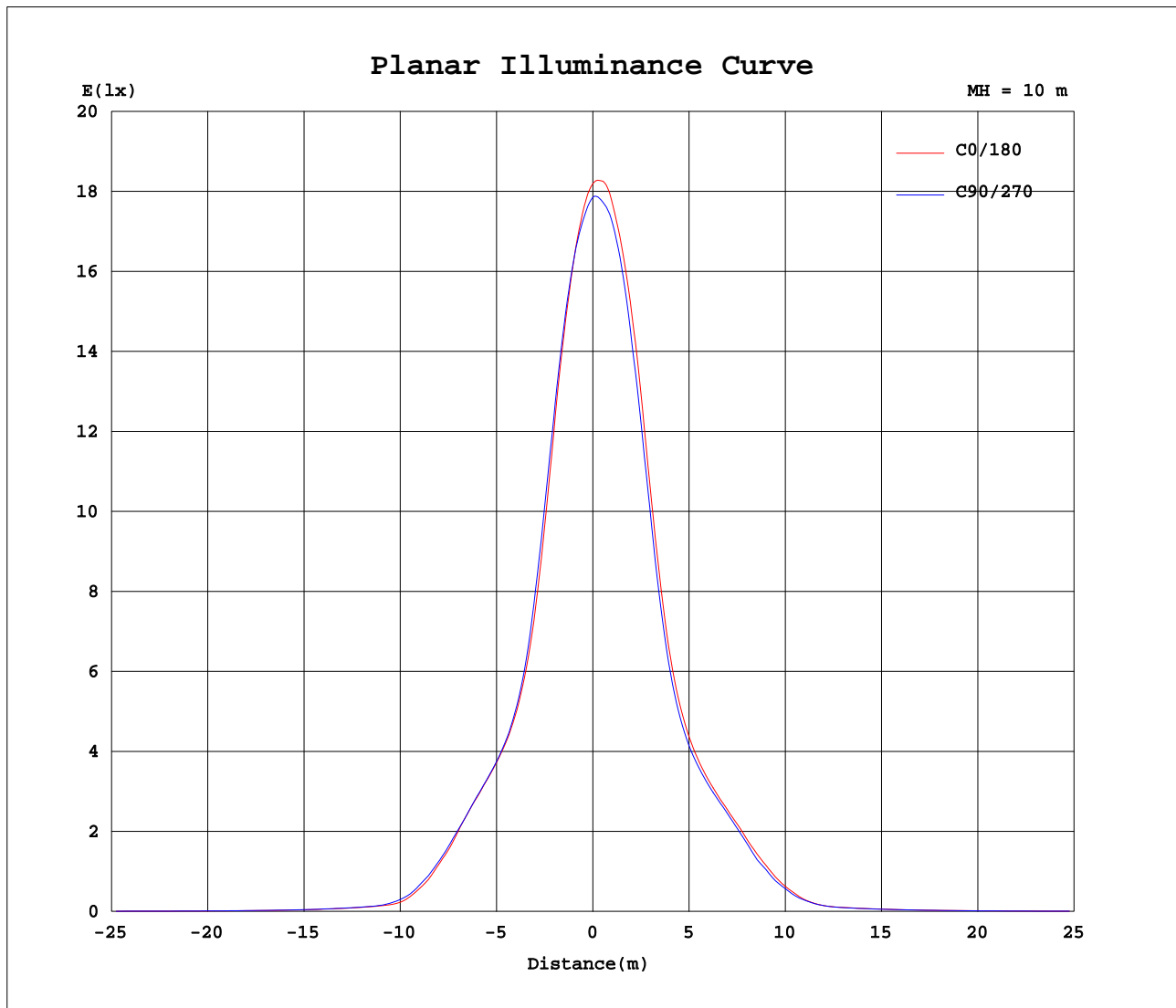
AvgL	cd/m2
L_0~180(65)av	4948
L_0~180(75)av	5609
L_0~180(85)av	1019
L_90~270(65)av	4922
L_90~270(75)av	5475
L_90~270(85)av	519
L_45(65)av	4907
L_45(75)av	5586
L_45(85)av	666

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:

```