

SJD-9W-927-38°



Light Output Ratio:	100.0%	
Luminaire Power:	10.64 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: 2021-12-15

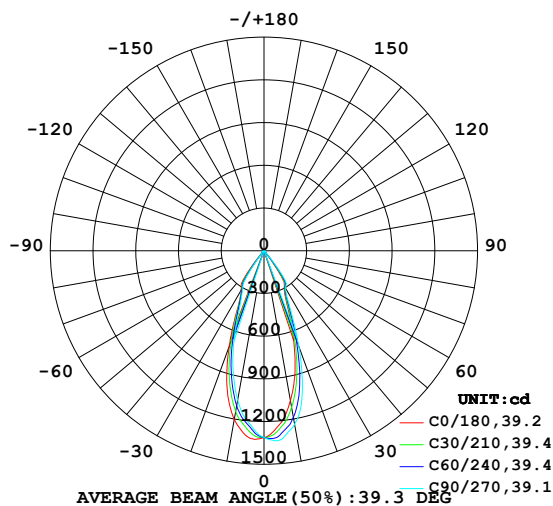
γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 8.967m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

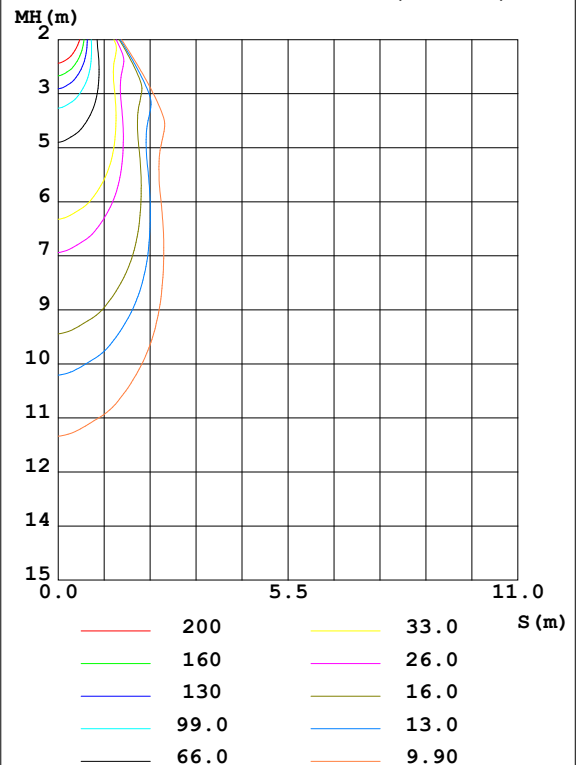
Test:U:221.0V I:0.0503A P:10.64W PF:0.9577 Freq:50.09Hz Lamp Flux:732.278x1 lm		
NAME: SJD-9W-927-38°	TYPE:Downlight	SERIAL No.:
SPEC.:2700K	DIM.: Φ 82*64mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 68.79 lm/W			
MODEL	Bridgelu-2700K	I _{max} (cd)	1348	S/MH(C0/180)	0.66
NOMINAL POWER(W)	10	LOR(%)	100.0	S/MH(C90/270)	0.61
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	732.28	η UP,DN(C0-180)	0.0,52.5
NOMINAL FLUX(lm)	732.278	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,47.5
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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ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1069	1157	1238	1259	1203	1118	1066	1045	0- 10	117.4	117.4	16,16
20	572.6	641.0	717.2	749.5	716.0	643.1	585.4	555.8	10- 20	253.0	370.4	50.6,50.6
30	285.6	294.2	304.0	314.3	323.0	309.7	299.8	286.8	20- 30	192.0	562.4	76.8,76.8
40	26.43	34.30	68.24	88.40	64.90	31.49	27.70	25.02	30- 40	120.6	683.0	93.3,93.3
50	16.26	16.88	17.69	18.46	17.85	17.04	16.47	16.16	40- 50	17.61	700.6	95.7,95.7
60	11.60	11.98	12.05	12.34	12.12	11.93	11.79	11.57	50- 60	12.85	713.5	97.4,97.4
70	6.136	6.407	7.319	8.122	7.972	7.468	6.957	6.514	60- 70	9.577	723.1	98.7,98.7
80	4.307	4.207	4.578	4.897	5.139	5.280	5.226	4.885	70- 80	6.088	729.1	99.6,99.6
90	0.0416	0.0365	0.2560	0.9964	0.9887	0.3390	0.0575	0.0629	80- 90	3.130	732.3	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): 692.93 lm

%lum = 94.6%

%lamp = 94.6%

Conical surface Flux(120deg): 713.48 lm

%lum = 97.4%

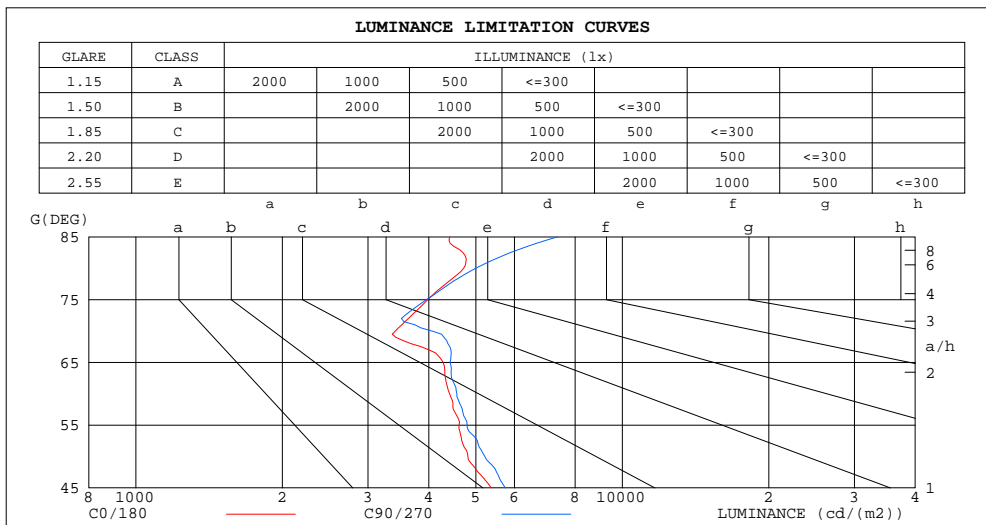
%lamp = 97.4%

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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:0.0503A P:10.64W PF:0.9577 Freq:50.09Hz Lamp Flux:732.278x1 lm		
NAME: SJD-9W-927-38°	TYPE:Downlight	SERIAL No.:
SPEC.:2700K	DIM.: $\phi 82 \times 64 \text{mm}$	
MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	4419	7359
80	4720	4998
75	3981	3957
70	3414	4057
65	4281	4426
60	4414	4568
55	4618	4794
50	4813	5216
45	5375	5749

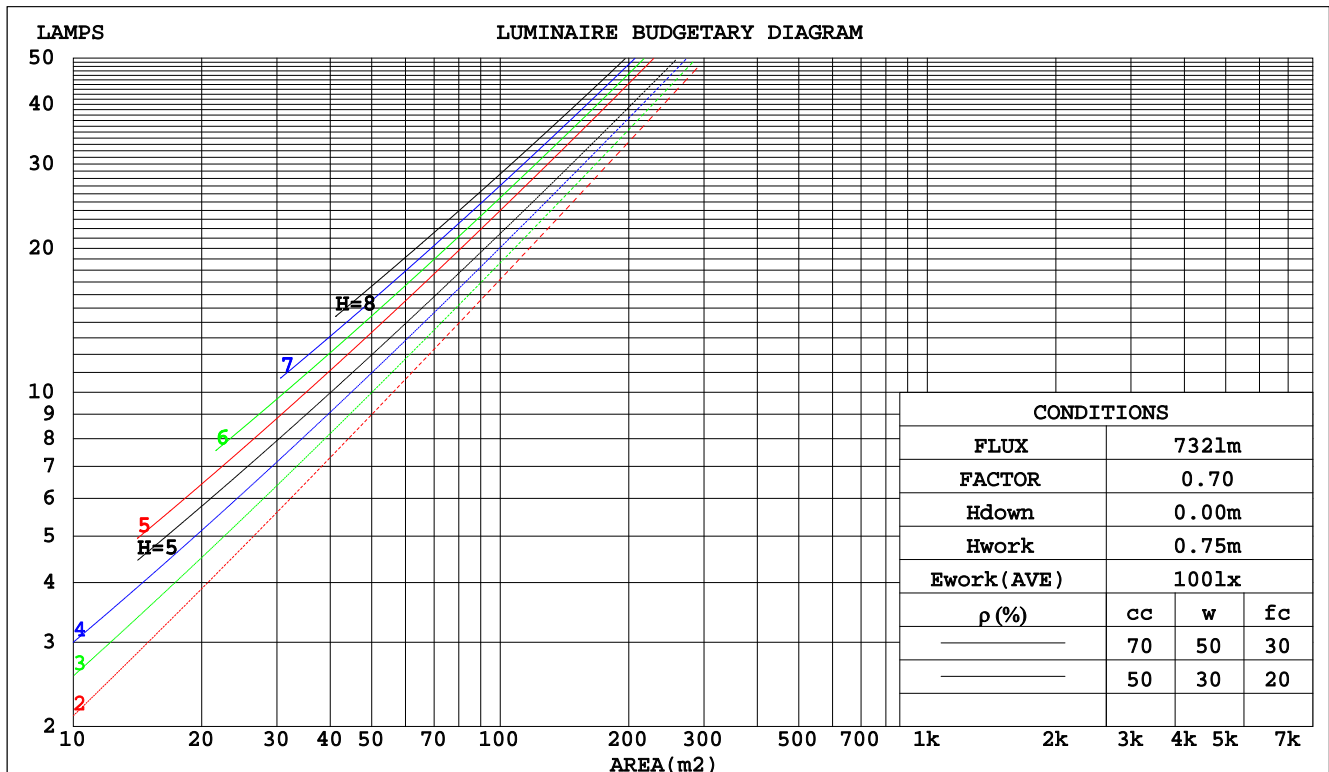
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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NAME: SJD-9W-927-38°	TYPE:Downlight	SERIAL No.:
SPEC.:2700K	DIM.: Φ82*64mm	
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	1.00
1.0	1.11	1.08	1.06	1.09	1.06	1.04	1.05	1.03	1.01	1.01	.99	.98	.97	.96	.95	.94
2.0	1.03	.90	.96	1.02	.98	.95	.99	.96	.93	.96	.93	.91	.93	.91	.89	.88
3.0	.97	.92	.88	.96	.91	.88	.93	.89	.86	.91	.88	.85	.88	.86	.84	.82
4.0	.91	.86	.82	.90	.85	.81	.88	.84	.81	.86	.82	.80	.84	.81	.79	.77
5.0	.86	.81	.77	.85	.80	.76	.83	.79	.76	.82	.78	.75	.80	.77	.74	.73
6.0	.82	.76	.72	.81	.75	.72	.79	.75	.71	.78	.74	.71	.77	.73	.70	.69
7.0	.77	.72	.68	.77	.71	.68	.75	.71	.67	.74	.70	.67	.73	.69	.67	.65
8.0	.74	.68	.64	.73	.68	.64	.72	.67	.64	.71	.67	.63	.70	.66	.63	.62
9.0	.70	.65	.61	.70	.64	.61	.69	.64	.61	.68	.63	.60	.67	.63	.60	.59
10.0	.67	.61	.58	.66	.61	.58	.66	.61	.58	.65	.61	.58	.64	.60	.57	.56



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WEC AND CCEC

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MFR.: NEKO LIGHTING AG		

pcc	80%			70%			50%			30%			10%			0	
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
ρfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.178	.101	.032	.171	.097	.031	.158	.091	.029	.147	.085	.027	.136	.079	.025		
2.0	.167	.091	.028	.161	.089	.027	.151	.084	.026	.141	.079	.025	.132	.075	.024		
3.0	.157	.084	.025	.152	.082	.025	.143	.078	.024	.135	.074	.023	.127	.070	.022		
4.0	.148	.077	.023	.144	.075	.022	.136	.072	.022	.129	.069	.021	.122	.067	.020		
5.0	.140	.071	.021	.137	.070	.020	.130	.068	.020	.124	.065	.019	.118	.063	.019		
6.0	.133	.067	.019	.130	.066	.019	.124	.064	.018	.119	.062	.018	.113	.060	.018		
7.0	.127	.063	.018	.124	.062	.018	.119	.060	.017	.114	.058	.017	.109	.057	.017		
8.0	.121	.059	.017	.118	.058	.016	.114	.057	.016	.109	.055	.016	.105	.054	.016		
9.0	.115	.056	.016	.113	.055	.015	.109	.054	.015	.105	.053	.015	.102	.052	.015		
10.0	.111	.053	.015	.109	.052	.015	.105	.051	.014	.101	.050	.014	.098	.049	.014		

ρcc	80%			70%			50%			30%			10%			0	
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
ρfc	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	.171	.157	.145	.146	.135	.125	.100	.093	.086	.058	.054	.050	.018	.017	.016		
2.0	.156	.133	.113	.133	.114	.098	.091	.079	.068	.053	.046	.040	.017	.015	.013		
3.0	.143	.114	.090	.122	.098	.078	.084	.068	.055	.049	.040	.032	.016	.013	.011		
4.0	.132	.099	.073	.113	.085	.064	.078	.059	.045	.045	.035	.027	.014	.011	.009		
5.0	.123	.087	.061	.105	.075	.053	.073	.053	.037	.042	.031	.022	.014	.010	.007		
6.0	.115	.078	.051	.099	.067	.044	.068	.047	.031	.040	.028	.019	.013	.009	.006		
7.0	.108	.070	.043	.093	.061	.038	.064	.042	.027	.037	.025	.016	.012	.008	.005		
8.0	.102	.064	.037	.088	.055	.032	.061	.039	.023	.035	.023	.014	.011	.007	.005		
9.0	.097	.058	.032	.083	.051	.028	.058	.036	.020	.034	.021	.012	.011	.007	.004		
10.0	.092	.054	.028	.079	.047	.025	.055	.033	.017	.032	.019	.010	.010	.006	.003		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
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Test Date:2021-12-15

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:0.0503A P:10.64W PF:0.9577 Freq:50.09Hz Lamp Flux:732.278x1 lm										
NAME: SJD-9W-927-38°					TYPE:Downlight			SERIAL No.:		
SPEC.:2700K					DIM.: ϕ 82*64mm					
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	17.2	18.1	17.4	18.2	18.4	17.8	18.7	18.0	18.9	19.0
3H	17.4	18.2	17.6	18.4	18.6	18.0	18.8	18.3	19.0	19.2
4H	17.5	18.3	17.8	18.5	18.7	18.1	18.9	18.4	19.1	19.3
6H	17.7	18.4	18.0	18.7	18.9	18.3	19.0	18.6	19.3	19.5
8H	17.8	18.5	18.1	18.8	19.0	18.4	19.1	18.7	19.4	19.6
12H	17.9	18.6	18.2	18.8	19.1	18.6	19.2	18.9	19.5	19.8
4H 2H	17.1	17.9	17.4	18.1	18.4	17.7	18.5	18.0	18.7	19.0
3H	17.4	18.1	17.7	18.4	18.7	18.0	18.7	18.3	19.0	19.2
4H	17.7	18.3	18.0	18.6	18.9	18.2	18.8	18.6	19.1	19.4
6H	18.0	18.6	18.4	18.9	19.3	18.5	19.1	18.9	19.4	19.8
8H	18.2	18.7	18.6	19.1	19.5	18.8	19.3	19.1	19.6	20.0
12H	18.3	18.8	18.8	19.2	19.6	19.0	19.5	19.4	19.9	20.3
8H 4H	17.7	18.2	18.1	18.6	19.0	18.2	18.7	18.6	19.1	19.5
6H	18.2	18.7	18.7	19.1	19.5	18.7	19.1	19.1	19.5	19.9
8H	18.5	18.9	19.0	19.3	19.8	19.0	19.4	19.5	19.8	20.3
12H	18.7	19.0	19.2	19.5	20.0	19.4	19.8	19.9	20.2	20.7
12H 4H	17.7	18.2	18.1	18.6	19.0	18.2	18.7	18.6	19.1	19.5
6H	18.3	18.7	18.7	19.1	19.5	18.7	19.1	19.2	19.5	20.0
8H	18.6	18.9	19.1	19.4	19.8	19.1	19.4	19.6	19.9	20.3
Variations with the observer position at spacings:										
S = 1.0H	+ 1.2 / - 0.7					+ 3.1 / - 2.1				
1.5H	+ 2.5 / - 0.6					+ 5.4 / - 2.0				
2.0H	+ 0.1 / - 0.3					+ 0.2 / - 0.4				

CIE Pub.117, 732.3 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -1.1$)

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 γ Interval: 0.5DEG
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Remarks:

UTILIZATION FACTORS TABLE

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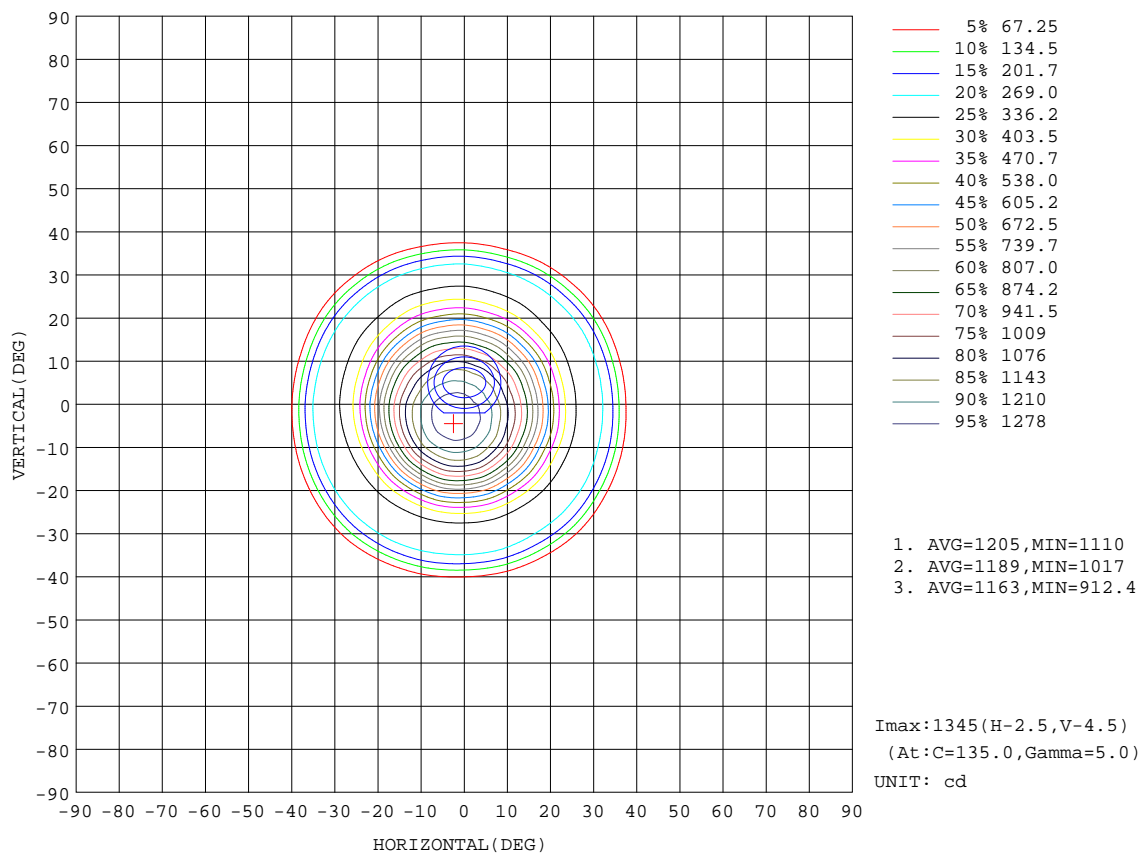
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	87	81	77	87	81	77	86	81	77	74
0.80	95	89	85	94	88	85	93	88	85	81
1.00	99	93	90	98	93	89	96	93	89	85
1.25	103	98	94	102	97	94	100	96	93	89
1.50	106	101	97	104	100	97	102	98	96	91
2.00	108	104	101	107	103	100	104	101	98	93
2.50	110	106	103	108	105	102	105	102	100	94
3.00	111	108	105	110	107	104	106	104	102	95
4.00	114	111	108	111	109	107	108	106	104	97
5.00	115	113	111	113	111	109	109	107	106	98
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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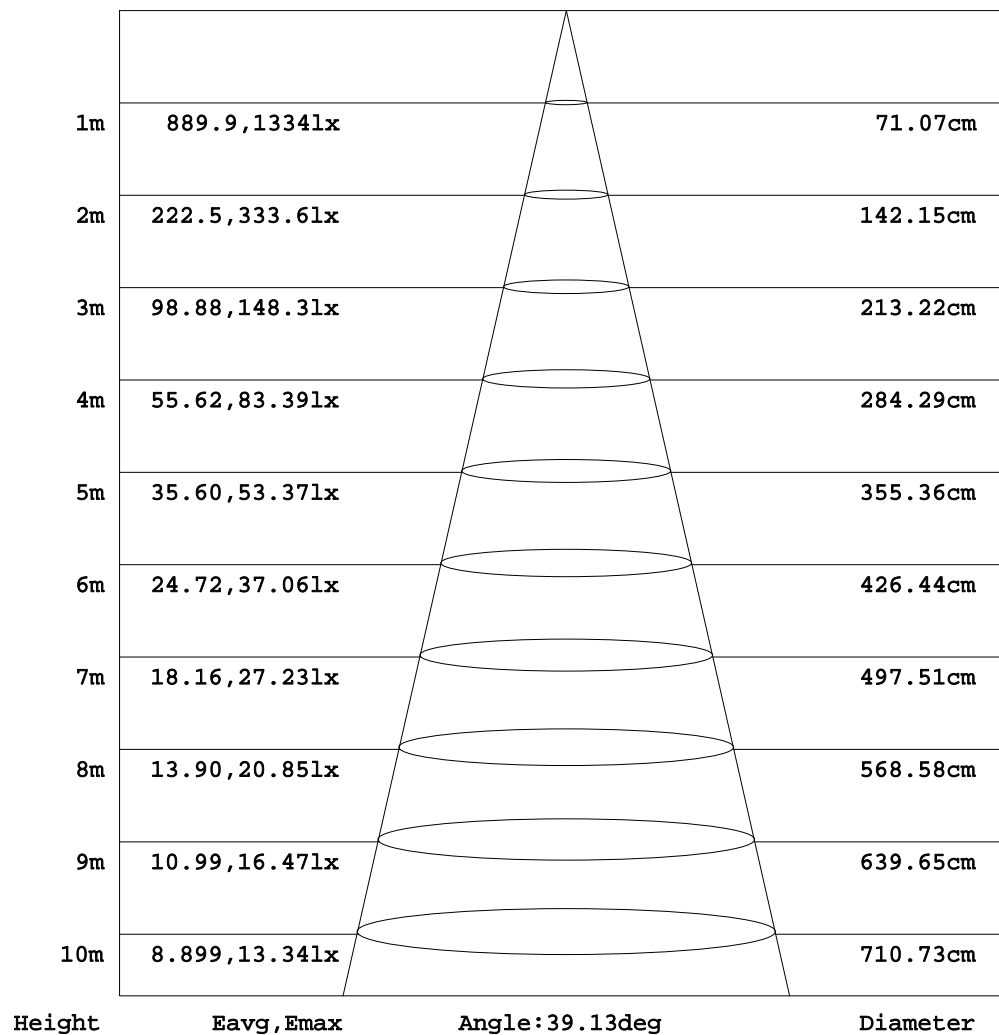
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AAI Figure

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SPEC.:2700K	DIM.: Φ 82*64mm	
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Flux out:370.4 lm



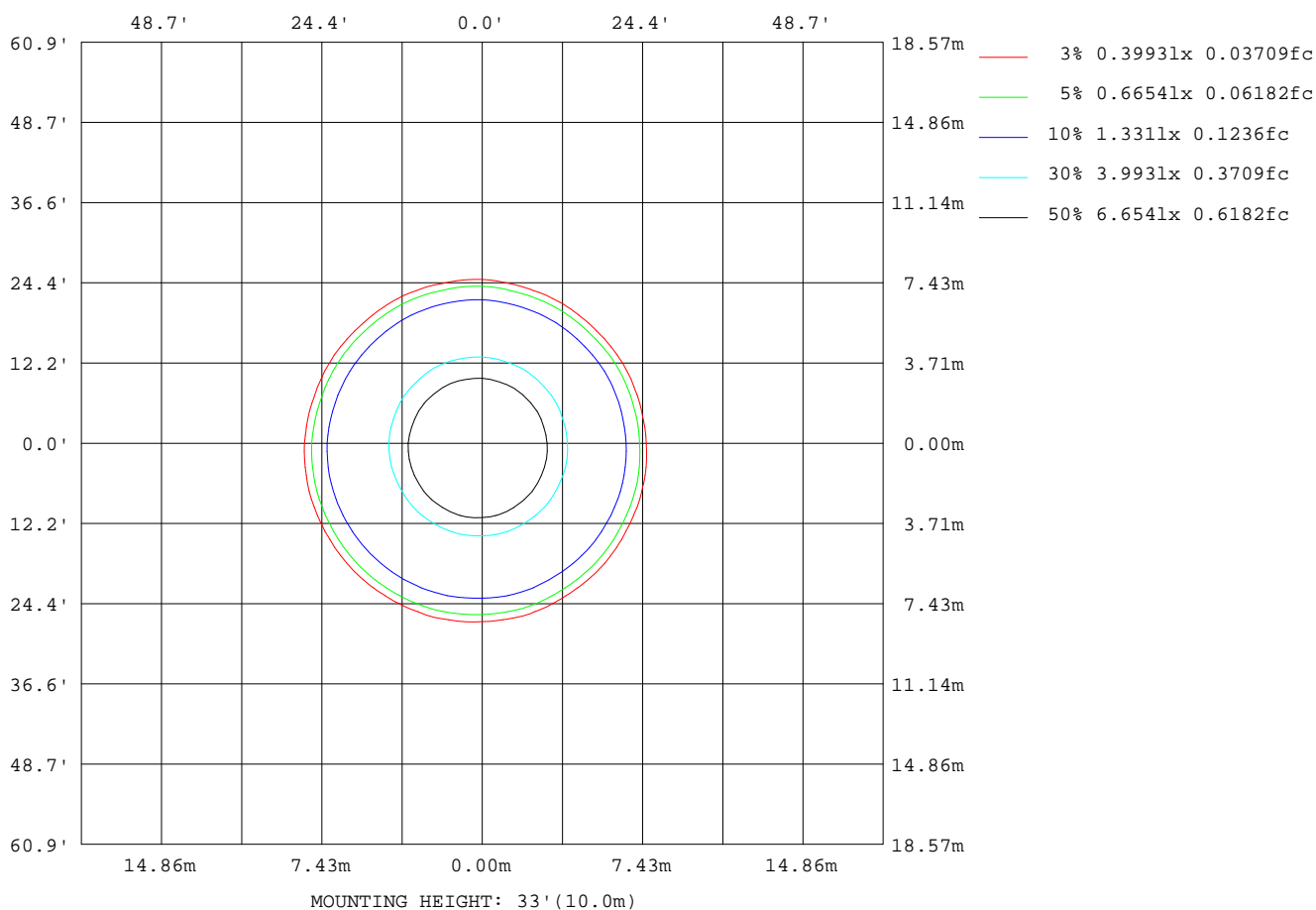
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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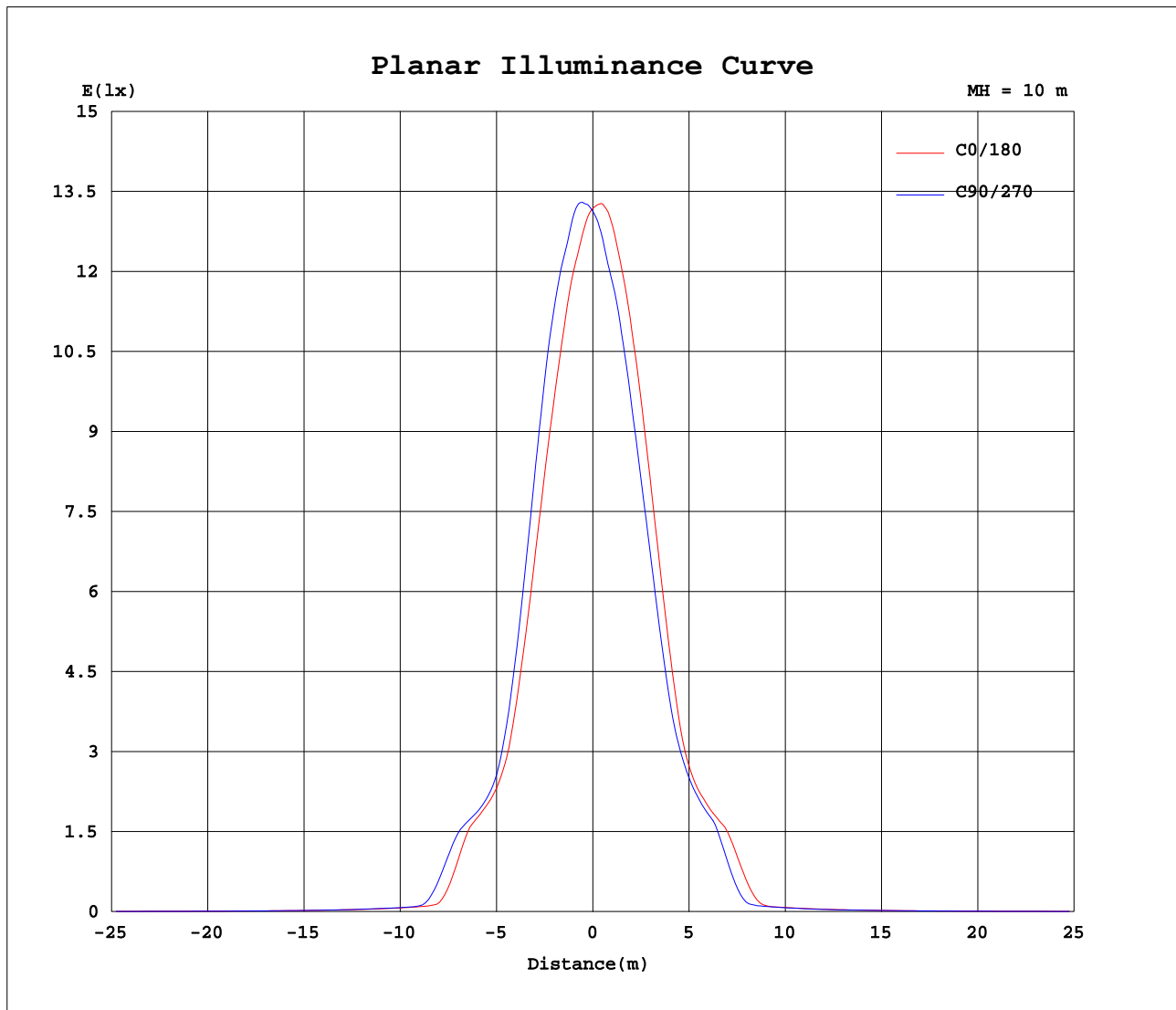
AvgL	cd/m2
L_0~180 (65) av	4375
L_0~180 (75) av	4166
L_0~180 (85) av	6328
L_90~270 (65) av	4392
L_90~270 (75) av	4229
L_90~270 (85) av	7416
L_45 (65) av	4405
L_45 (75) av	4207
L_45 (85) av	6749

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2021-12-15

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: 2021-12-15

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:

```