

SJA1-DW-6W-9D30-38°



Light Output Ratio:	100.0%	
Luminaire Power:	7.46 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.60	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2021-12-16

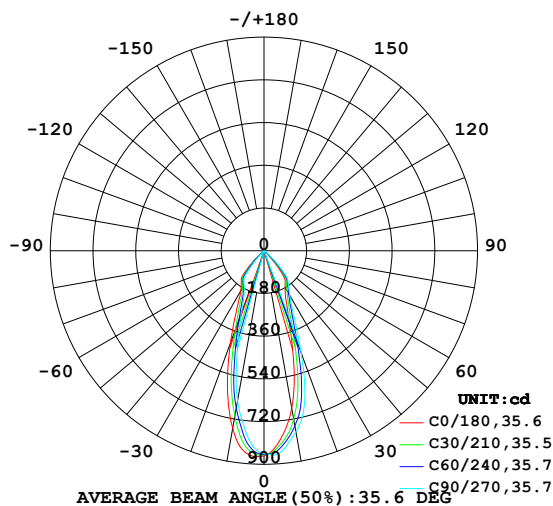
γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 8.967m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

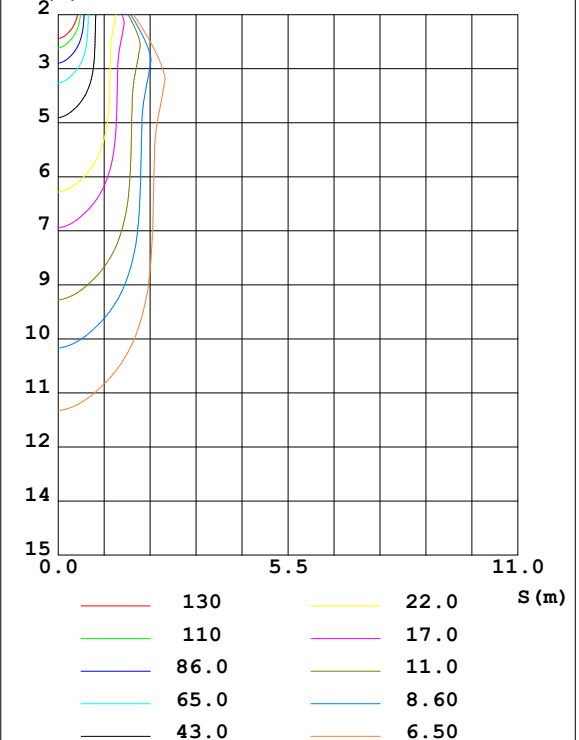
Test:U:220.8V I:0.0361A P:7.460W PF:0.9363 Freq:50.08Hz Lamp Flux:486.148x1 lm		
NAME: SJA1-DW-6W-9D30-38°	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: φ70mm*H150mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 65.17 lm/W			
MODEL	Bridgelux-3000K	I _{max} (cd)	868.7	S/MH (C0/180)	0.64
NOMINAL POWER (W)	10	LOR (%)	100.0	S/MH (C90/270)	0.51
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	486.15	η UP, DN (C0-180)	0.0, 54.7
NOMINAL FLUX (lm)	486.148	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 45.3
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)



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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	673.9	734.9	774.8	772.2	760.3	690.9	642.1	632.9	0- 10	74.68	74.68	15.4,15.4
20	307.9	381.3	457.6	459.6	413.9	330.7	278.9	278.0	10- 20	147.8	222.5	45.8,45.8
30	178.4	202.0	218.2	212.8	196.8	178.6	168.8	168.8	20- 30	115.8	338.2	69.6,69.6
40	95.82	130.7	153.6	153.0	146.2	118.2	83.97	78.71	30- 40	99.87	438.1	90.1,90.1
50	6.342	9.184	14.97	15.88	11.32	7.532	6.256	5.816	40- 50	40.45	478.6	98.4,98.4
60	2.649	3.502	4.130	4.064	3.649	3.054	2.349	2.195	50- 60	4.761	483.3	99.4,99.4
70	0.8477	1.114	1.311	1.322	1.107	0.9536	0.8316	0.7892	60- 70	1.867	485.2	99.8,99.8
80	0.2354	0.4077	0.5062	0.5827	0.3912	0.4256	0.3766	0.3110	70- 80	0.7304	485.9	100,100
90	0.0052	0.0105	0.0627	0.1254	0.0836	0.0105	0.0052	0.0078	80- 90	0.2232	486.1	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): 468.82 lm

%lum = 96.4%

%lamp = 96.4%

Conical surface Flux(120deg): 483.33 lm

%lum = 99.4%

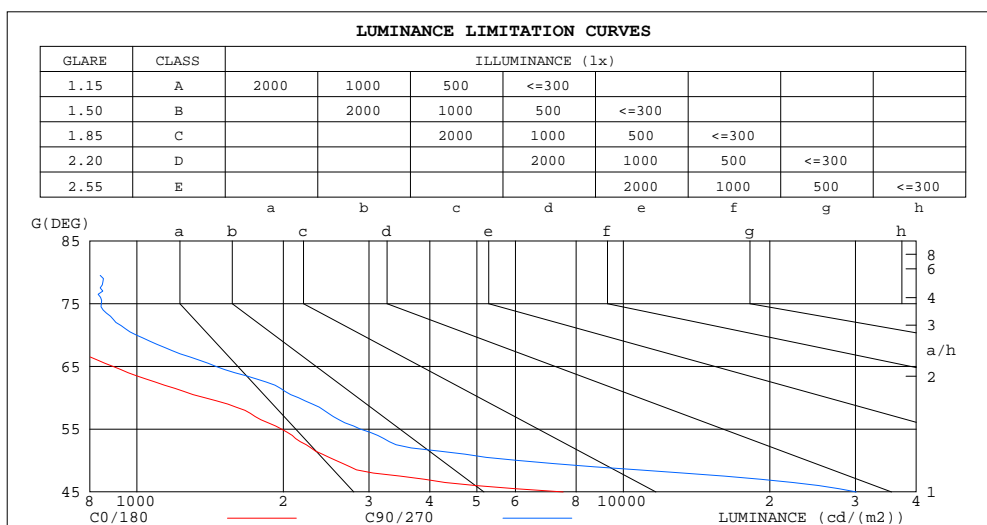
%lamp = 99.4%

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C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2021-12-16

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:0.0361A P:7.460W PF:0.9363 Freq:50.08Hz Lamp Flux:486.148x1 lm		
NAME: SJA1-DW-6W-9D30-38°	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: φ70mm*H150mm	
MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	391	809
80	352	758
75	573	845
70	644	996
65	892	1452
60	1377	2148
55	1982	2877
50	2565	6057
45	7519	30118

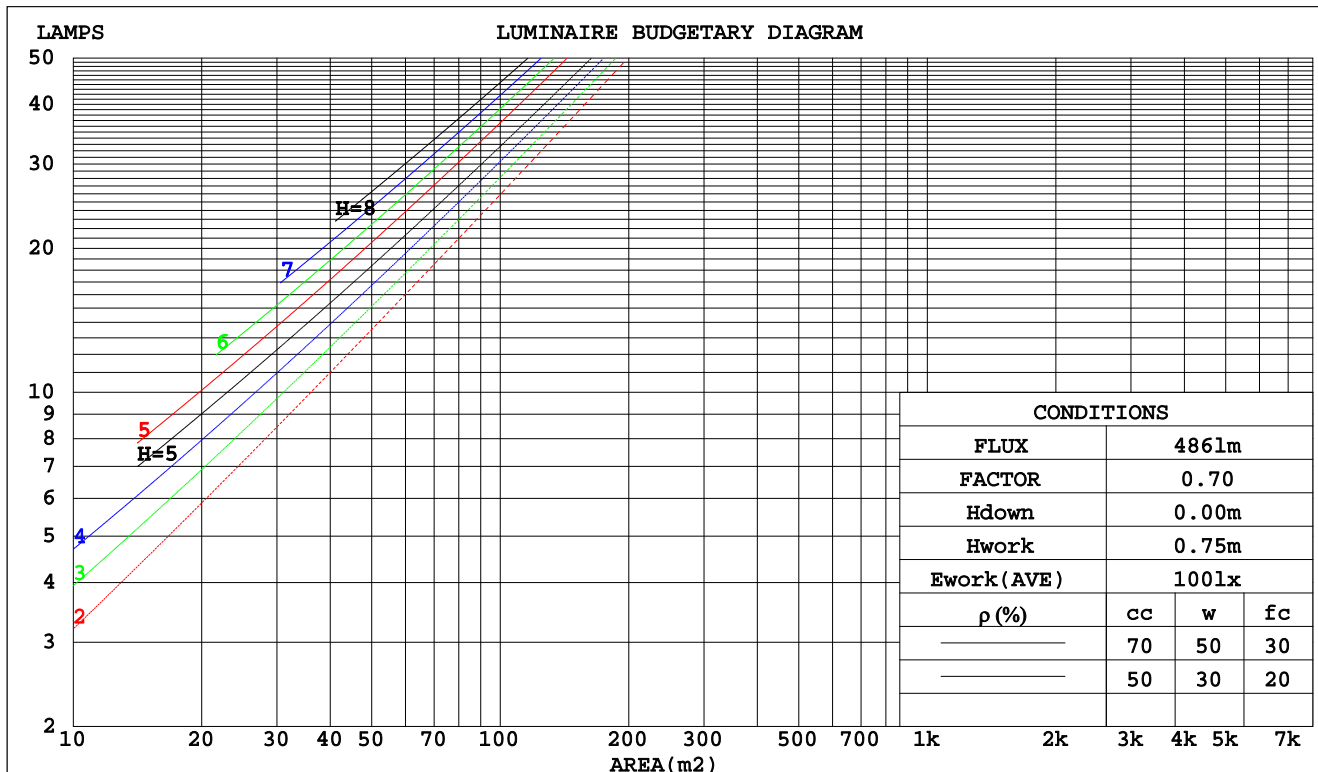
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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NAME: SJA1-DW-6W-9D30-38°	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: φ70mm*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	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	1.11	1.09	1.06	1.09	1.07	1.05	1.05	1.03	1.01	1.01	.00	.98	.98	.97	.96	.94
2.0	1.03	.99	.96	1.02	.98	.95	.98	.96	.93	.96	.93	.91	.93	.91	.89	.88
3.0	.97	.92	.88	.95	.91	.87	.93	.89	.86	.90	.87	.85	.88	.85	.83	.82
4.0	.91	.85	.81	.89	.84	.81	.87	.83	.80	.85	.82	.79	.83	.80	.78	.76
5.0	.85	.79	.75	.84	.79	.75	.82	.78	.74	.81	.77	.74	.79	.76	.73	.72
6.0	.80	.74	.70	.79	.74	.70	.78	.73	.69	.76	.72	.69	.75	.71	.69	.67
7.0	.76	.70	.66	.75	.69	.66	.74	.69	.65	.73	.68	.65	.71	.68	.65	.63
8.0	.72	.66	.62	.71	.66	.62	.70	.65	.61	.69	.64	.61	.68	.64	.61	.60
9.0	.68	.62	.58	.67	.62	.58	.66	.62	.58	.66	.61	.58	.65	.61	.58	.56
10.0	.65	.59	.55	.64	.59	.55	.63	.58	.55	.63	.58	.55	.62	.58	.55	.53



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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	.175	.099	.031	.168	.096	.030	.155	.089	.028	.144	.083	.027	.133	.077	.025		
2.0	.167	.092	.028	.161	.089	.027	.151	.084	.026	.141	.079	.025	.132	.075	.024		
3.0	.159	.085	.025	.154	.083	.025	.145	.079	.024	.137	.075	.023	.129	.072	.022		
4.0	.151	.079	.023	.147	.077	.023	.139	.074	.022	.132	.071	.021	.126	.068	.021		
5.0	.144	.073	.021	.141	.072	.021	.134	.070	.021	.128	.067	.020	.122	.065	.020		
6.0	.137	.069	.020	.134	.068	.020	.128	.066	.019	.123	.064	.019	.118	.062	.018		
7.0	.131	.065	.018	.128	.064	.018	.123	.062	.018	.118	.061	.018	.114	.059	.017		
8.0	.125	.061	.017	.123	.061	.017	.118	.059	.017	.114	.058	.017	.110	.056	.016		
9.0	.120	.058	.016	.118	.057	.016	.114	.056	.016	.110	.055	.016	.106	.054	.016		
10.0	.115	.055	.015	.113	.055	.015	.109	.054	.015	.106	.052	.015	.102	.051	.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	.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	.123	.098	.078	.084	.068	.055	.049	.040	.032	.016	.013	.011	
4.0	.133	.099	.073	.114	.085	.063	.078	.059	.045	.045	.035	.026	.015	.011	.009	
5.0	.124	.087	.060	.106	.075	.052	.073	.053	.037	.042	.031	.022	.014	.010	.007	
6.0	.116	.078	.050	.100	.067	.044	.069	.047	.031	.040	.028	.018	.013	.009	.006	
7.0	.110	.070	.042	.095	.061	.037	.065	.043	.026	.038	.025	.016	.012	.008	.005	
8.0	.104	.064	.036	.090	.055	.032	.062	.039	.023	.036	.023	.013	.012	.008	.004	
9.0	.099	.059	.032	.085	.051	.028	.059	.036	.020	.034	.021	.012	.011	.007	.004	
10.0	.094	.054	.028	.081	.047	.024	.056	.033	.017	.033	.020	.010	.011	.006	.003	

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2021-12-16

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:0.0361A P:7.460W PF:0.9363 Freq:50.08Hz Lamp Flux:486.148x1 lm										
NAME: SJA1-DW-6W-9D30-38°					TYPE:Downlight			SERIAL No.:		
SPEC.:3000K					DIM.: φ70mm*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	20.1	21.0	20.3	21.2	21.4	21.7	22.7	22.0	22.8	23.0
3H	19.9	20.8	20.2	21.0	21.2	21.6	22.4	21.8	22.6	22.8
4H	19.9	20.7	20.1	20.9	21.1	21.5	22.3	21.8	22.5	22.7
6H	19.8	20.5	20.1	20.8	21.0	21.4	22.2	21.7	22.4	22.7
8H	19.7	20.5	20.0	20.7	21.0	21.4	22.1	21.7	22.3	22.6
12H	19.7	20.4	20.0	20.7	20.9	21.3	22.0	21.6	22.3	22.6
4H 2H	19.9	20.7	20.1	20.9	21.1	21.5	22.3	21.8	22.5	22.7
3H	19.7	20.4	20.0	20.7	20.9	21.3	22.0	21.6	22.3	22.6
4H	19.6	20.2	20.0	20.5	20.9	21.2	21.9	21.6	22.2	22.5
6H	19.5	20.1	19.9	20.4	20.8	21.1	21.7	21.5	22.0	22.4
8H	19.5	20.0	19.9	20.3	20.7	21.1	21.6	21.5	22.0	22.3
12H	19.4	19.9	19.8	20.3	20.7	21.1	21.5	21.5	21.9	22.3
8H 4H	19.5	20.0	19.9	20.3	20.7	21.1	21.6	21.5	22.0	22.3
6H	19.4	19.8	19.8	20.2	20.6	21.0	21.4	21.4	21.8	22.2
8H	19.3	19.7	19.8	20.1	20.6	21.0	21.3	21.4	21.7	22.2
12H	19.3	19.6	19.7	20.0	20.5	20.9	21.2	21.4	21.7	22.1
12H 4H	19.4	19.9	19.8	20.3	20.7	21.0	21.5	21.5	21.9	22.3
6H	19.3	19.7	19.8	20.1	20.6	20.9	21.3	21.4	21.7	22.2
8H	19.3	19.6	19.7	20.0	20.5	20.9	21.2	21.4	21.7	22.1
Variations with the observer position at spacings:										
S = 1.0H	+ 2.6 / -13.0					+ 2.5 / -12.3				
1.5H	+ 5.1 / -11.6					+ 4.4 / -11.8				
2.0H	+ 5.6 / - 4.1					+ 8.5 / - 8.7				

CIE Pub.117, 486.1 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -2.5$)

C Range: 0 - 360DEG
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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%
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Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.8V I:0.0361A P:7.460W PF:0.9363 Freq:50.08Hz Lamp Flux:486.148x1 lm		
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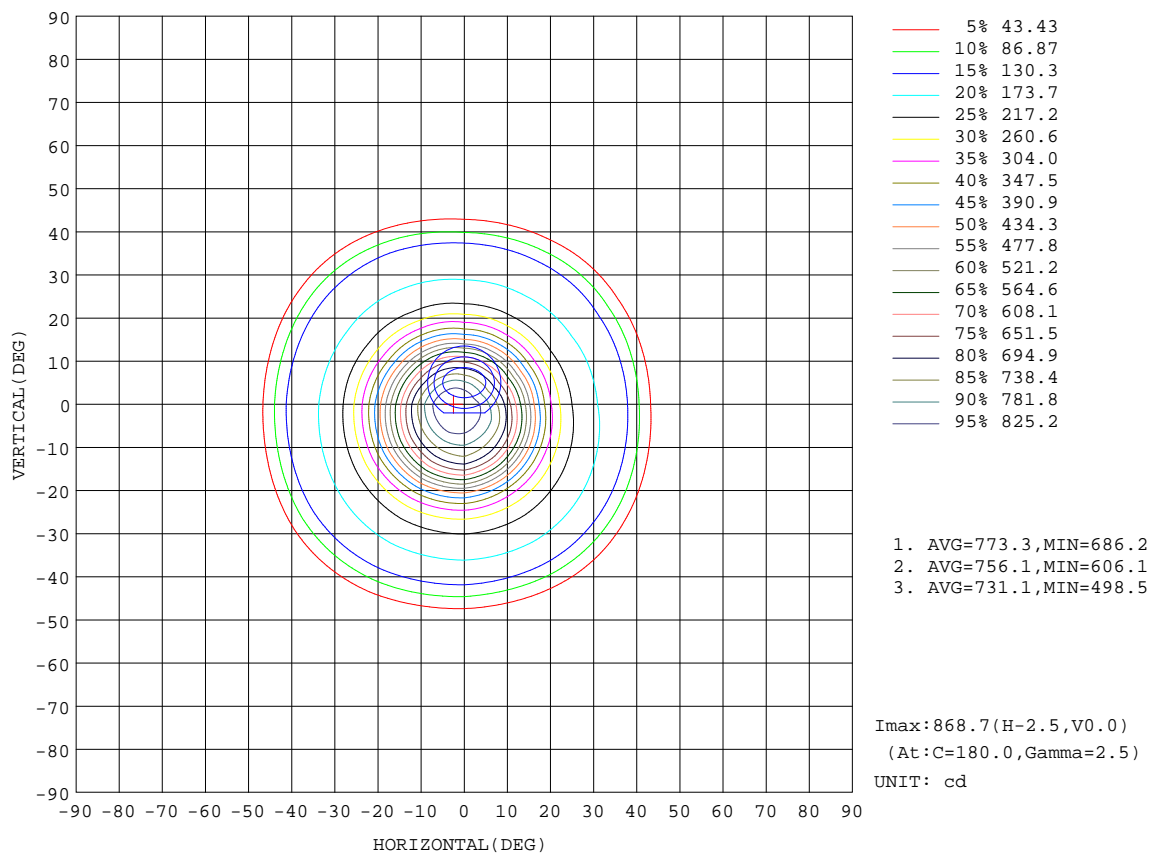
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	85	79	75	85	78	75	84	78	74	71
0.80	93	87	83	92	87	83	91	86	83	79
1.00	98	92	88	97	92	88	96	92	88	84
1.25	102	97	93	101	96	93	99	95	92	88
1.50	105	100	97	104	100	96	102	98	95	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	112	110	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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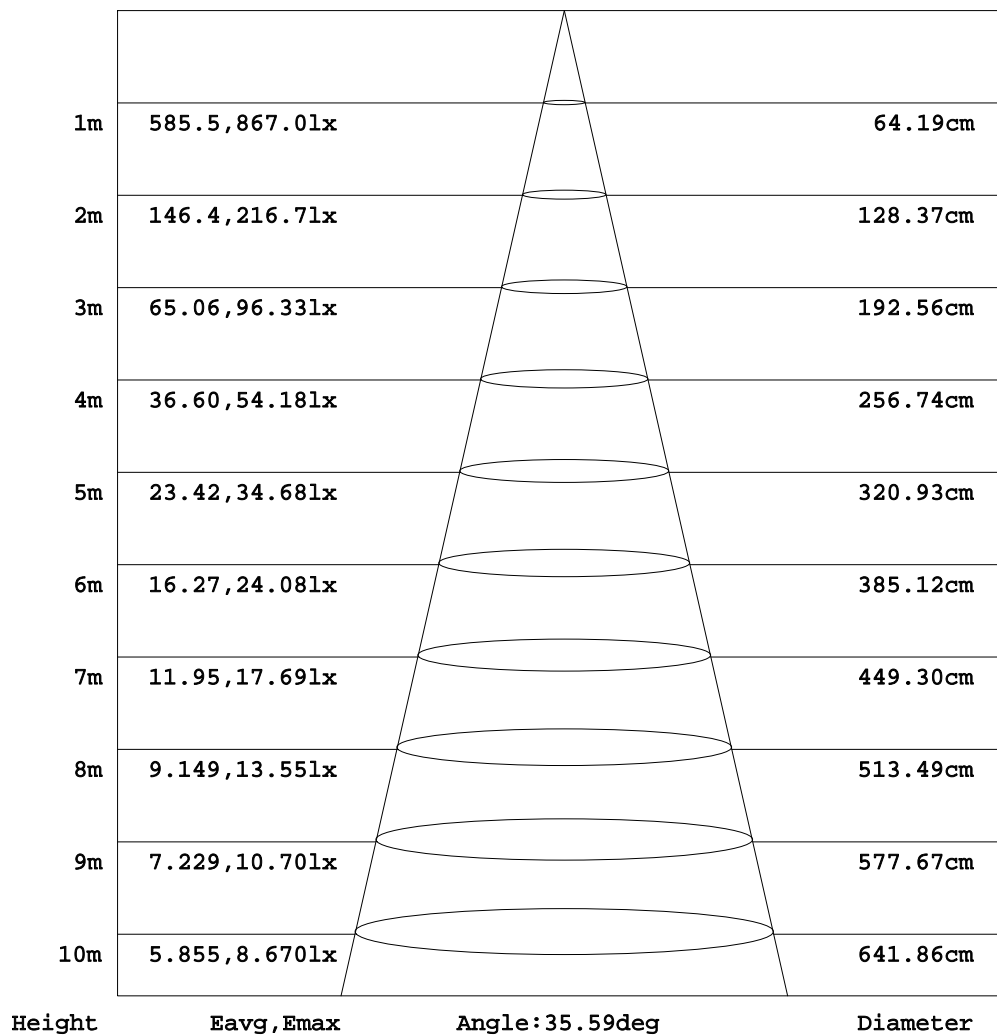
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AAI Figure

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SPEC.:3000K	DIM.: φ70mm*H150mm	
MFR.: NEKO LIGHTING AG		

Flux out:194.2 lm



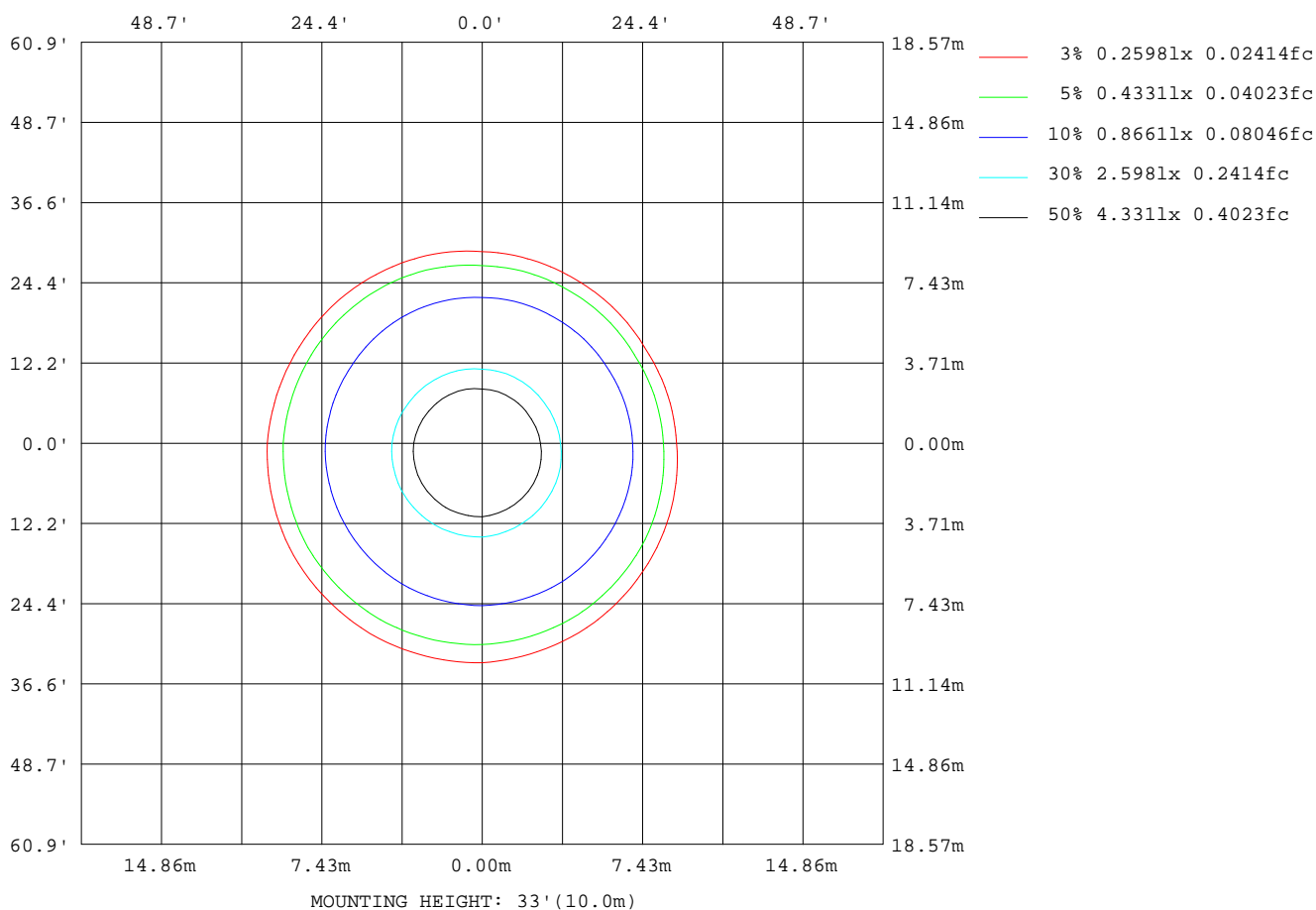
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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SPEC.:3000K	DIM.: ϕ 70mm*H150mm	
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LED Avg.L Report

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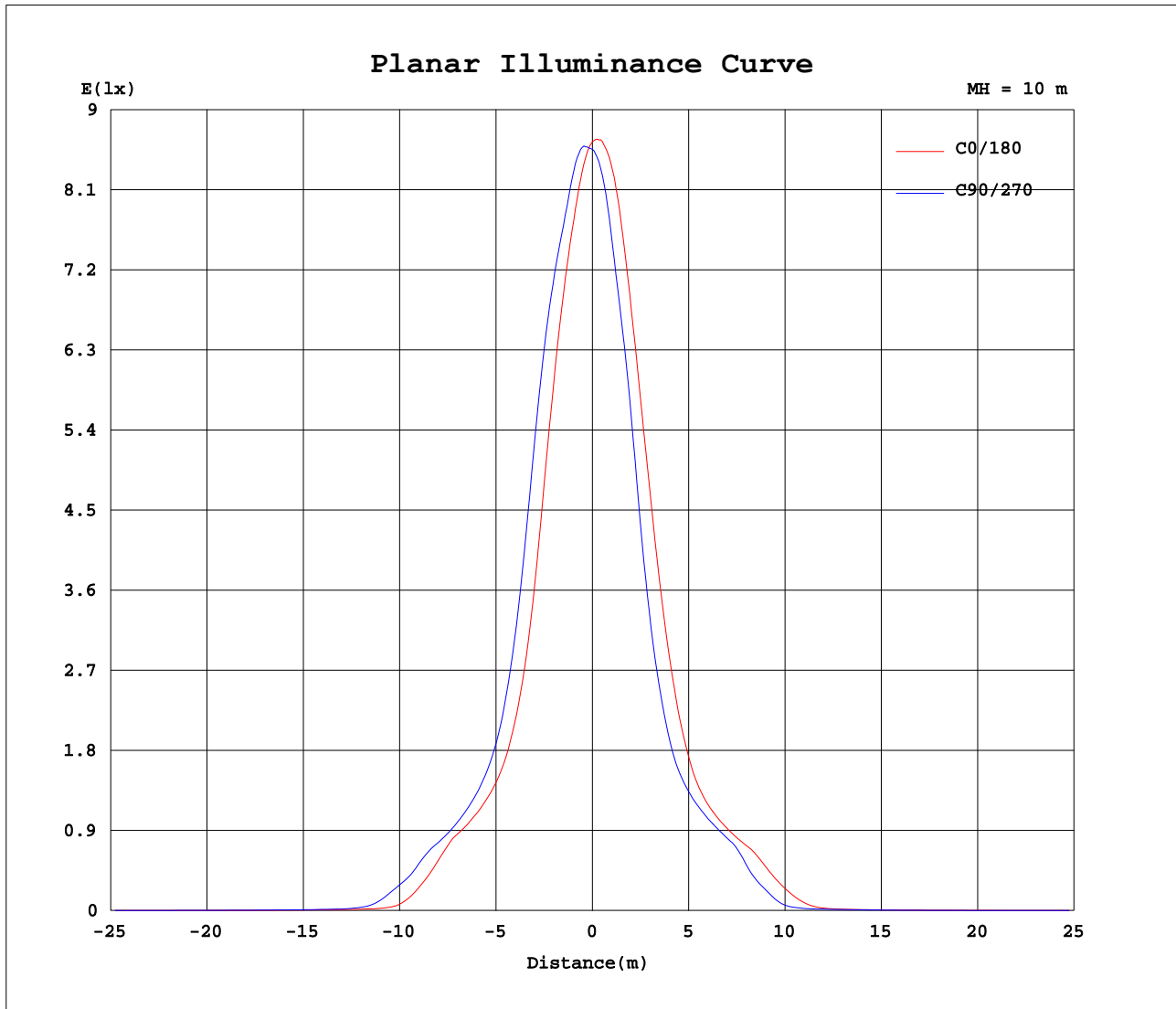
AvgL	cd/m2
L_0~180 (65) av	1058
L_0~180 (75) av	604
L_0~180 (85) av	546
L_90~270 (65) av	1127
L_90~270 (75) av	724
L_90~270 (85) av	662
L_45 (65) av	1080
L_45 (75) av	691
L_45 (85) av	628

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2021-12-16

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: Jason
Test Date: 2021-12-16

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:

```