

SJD-DW-6W-9D30-38°



Light Output Ratio:	100.0%	
Luminaire Power:	7.438 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

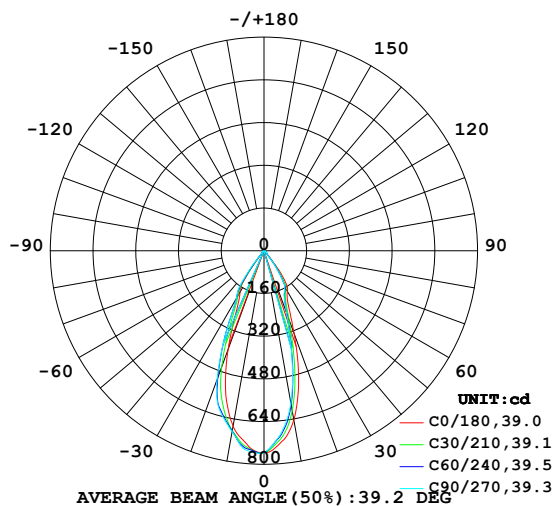
γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity: 58%  
Test Distance: 8.967m [K=1.0000]  
Remarks:

**LUMINAIRE PHOTOMETRIC TEST REPORT**

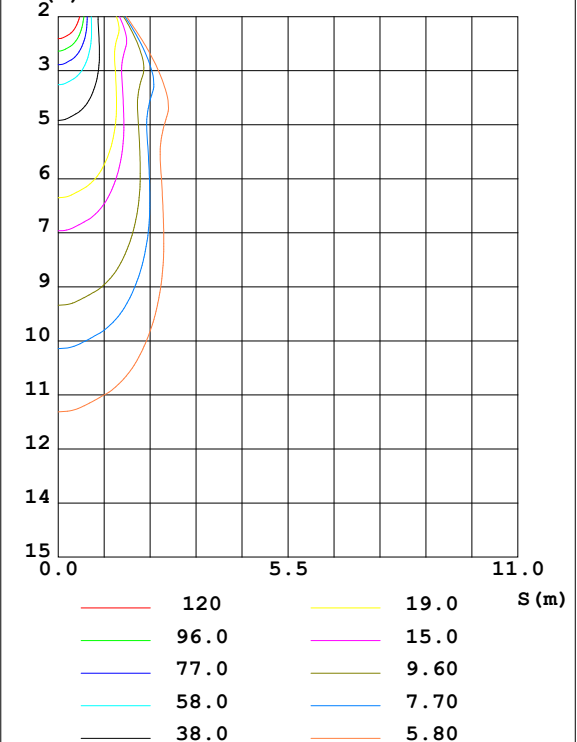
Test:U:220.8V I:0.0361A P:7.438W PF:0.9341 Freq:50.08Hz Lamp Flux:422.489x1 lm		
NAME: SJD-DW-6W-9D30-38°	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: $\phi$ 82*64mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 56.80 lm/W			
MODEL	Bridgelu-3000K	I <sub>max</sub> (cd)	759.8	S/MH(C0/180)	0.65
NOMINAL POWER(W)	10	LOR(%)	100.0	S/MH(C90/270)	0.72
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	422.49	$\eta$ UP,DN(C0-180)	0.0,44.5
NOMINAL FLUX(lm)	422.489	CIE CLASS	DIRECT	$\eta$ UP,DN(C180-360)	0.0,55.5
LAMPS INSIDE	1	$\eta$ up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	220	$\eta$ 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  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2021-12-15

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	643.4	600.6	579.8	606.1	667.2	683.9	687.5	687.6	0- 10	66.56	66.56	15.8,15.8
20	330.1	259.7	247.7	295.5	393.1	484.2	514.9	438.2	10- 20	142.2	208.8	49.4,49.4
30	175.8	161.6	156.6	163.4	180.5	203.5	208.5	190.6	20- 30	114.3	323.1	76.5,76.5
40	35.73	29.69	23.22	19.56	16.90	17.42	25.18	34.18	30- 40	68.25	391.3	92.6,92.6
50	12.86	13.64	12.74	10.83	9.042	8.445	9.180	10.72	40- 50	11.08	402.4	95.3,95.3
60	8.978	9.982	9.306	7.564	5.921	5.237	5.869	7.242	50- 60	8.132	410.6	97.2,97.2
70	6.146	7.129	6.354	4.534	2.903	2.250	2.754	4.277	60- 70	6.060	416.6	98.6,98.6
80	4.139	5.519	5.062	2.997	1.724	1.219	1.409	2.474	70- 80	3.914	420.5	99.5,99.5
90	0.6440	0.8481	0.2989	0.0158	0.0309	0.0416	0.0367	0.1210	80- 90	1.956	422.5	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): 397.46 lm

%lum = 94.1%

%lamp = 94.1%

Conical surface Flux(120deg): 410.56 lm

%lum = 97.2%

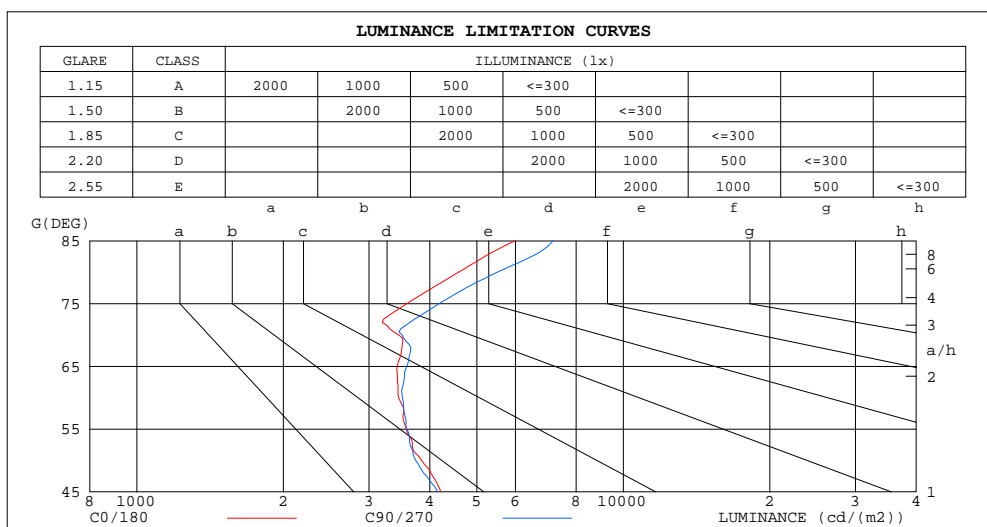
%lamp = 97.2%

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Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2021-12-15

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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:7.438W PF:0.9341 Freq:50.08Hz Lamp Flux:422.489x1 lm		
NAME: SJD-DW-6W-9D30-38°	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: $\phi 82 \times 64 \text{mm}$	
MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	5986	7173
80	4581	5505
75	3589	4183
70	3454	3508
65	3432	3591
60	3451	3515
55	3579	3591
50	3846	3742
45	4214	4155

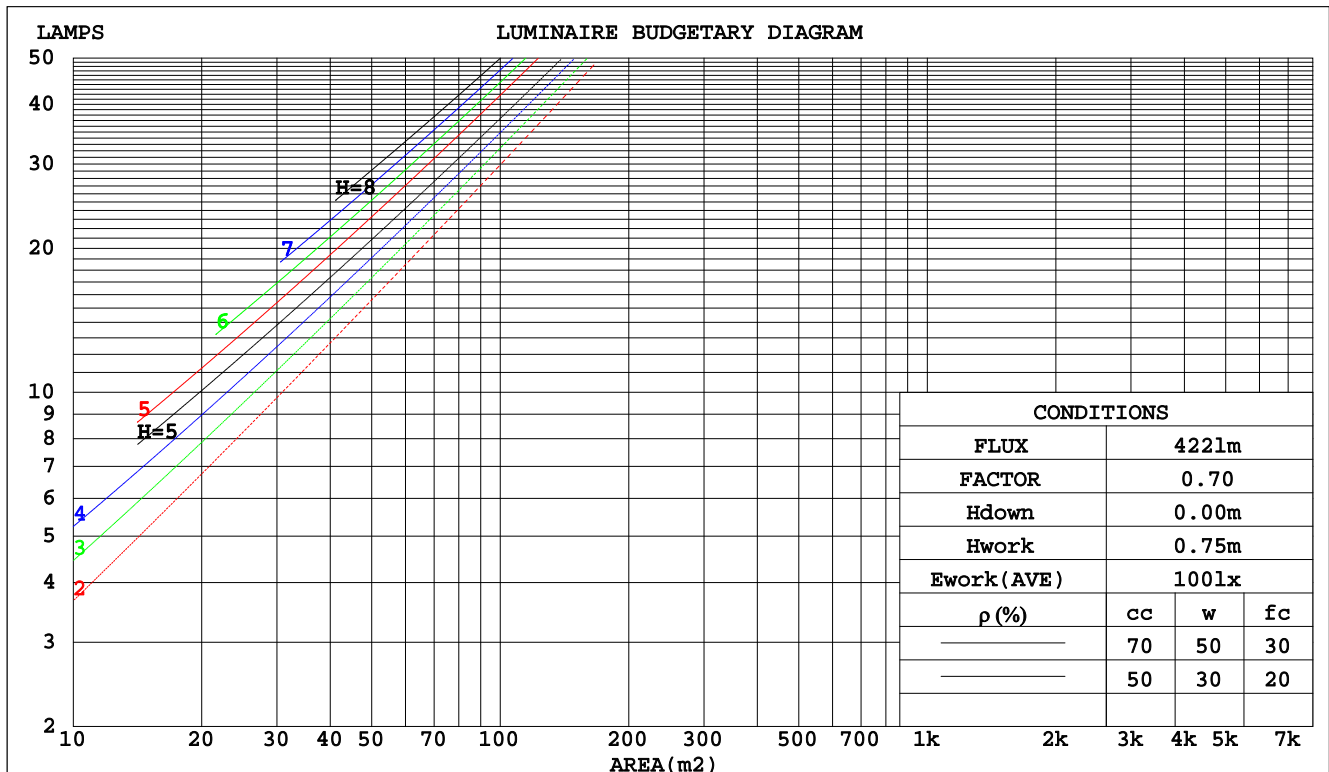
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Remarks:

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

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NAME: SJD-DW-6W-9D30-38°	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: $\Phi$ 82*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	1.08	1.06	1.04	1.04	1.03	1.01	1.01	.99	.98	.97	.96	.95	.93
2.0	1.03	.99	.96	1.02	.98	.95	.98	.95	.93	.95	.93	.91	.93	.91	.89	.87
3.0	.97	.92	.88	.95	.91	.87	.93	.89	.86	.90	.87	.85	.88	.86	.83	.82
4.0	.91	.86	.82	.90	.85	.81	.88	.83	.80	.86	.82	.79	.84	.81	.78	.77
5.0	.86	.80	.76	.85	.80	.76	.83	.79	.75	.81	.78	.74	.80	.77	.74	.72
6.0	.81	.75	.71	.80	.75	.71	.79	.74	.71	.77	.73	.70	.76	.73	.70	.68
7.0	.77	.71	.67	.76	.71	.67	.75	.70	.67	.74	.70	.66	.73	.69	.66	.65
8.0	.73	.67	.64	.73	.67	.63	.71	.67	.63	.70	.66	.63	.70	.66	.63	.61
9.0	.70	.64	.60	.69	.64	.60	.68	.63	.60	.67	.63	.60	.67	.63	.60	.58
10.0	.66	.61	.57	.66	.61	.57	.65	.60	.57	.64	.60	.57	.64	.60	.57	.56



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C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason  
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 $\gamma$  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

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SPEC.:3000K	DIM.: $\Phi$ 82*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						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.180	.102	.032	.173	.099	.031	.160	.092	.029	.149	.086	.028	.138	.080	.026		
2.0	.169	.093	.028	.163	.090	.028	.153	.085	.026	.143	.080	.025	.134	.076	.024		
3.0	.159	.084	.025	.154	.082	.025	.145	.079	.024	.137	.075	.023	.129	.071	.022		
4.0	.150	.078	.023	.146	.076	.023	.138	.073	.022	.131	.070	.021	.124	.067	.021		
5.0	.142	.072	.021	.138	.071	.021	.131	.068	.020	.125	.066	.020	.119	.064	.019		
6.0	.134	.067	.019	.131	.066	.019	.125	.064	.019	.120	.062	.018	.115	.060	.018		
7.0	.128	.063	.018	.125	.062	.018	.120	.061	.017	.115	.059	.017	.110	.057	.017		
8.0	.122	.060	.017	.119	.059	.017	.115	.057	.016	.110	.056	.016	.106	.055	.016		
9.0	.116	.056	.016	.114	.056	.016	.110	.054	.015	.106	.053	.015	.103	.052	.015		
10.0	.111	.053	.015	.110	.053	.015	.106	.052	.015	.102	.051	.014	.099	.050	.014		

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	.147	.135	.124	.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	.132	.099	.073	.114	.085	.064	.078	.059	.045	.045	.035	.026	.015	.011	.009	
5.0	.123	.087	.060	.106	.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	.109	.070	.043	.093	.061	.037	.065	.043	.026	.037	.025	.016	.012	.008	.005	
8.0	.103	.064	.037	.088	.055	.032	.061	.039	.023	.036	.023	.014	.012	.007	.004	
9.0	.097	.058	.032	.084	.051	.028	.058	.036	.020	.034	.021	.012	.011	.007	.004	
10.0	.093	.054	.028	.080	.047	.024	.055	.033	.017	.032	.019	.010	.010	.006	.003	

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:

## UGR(Unified Glare Rating) Table

Test:U:220.8V I:0.0361A P:7.438W PF:0.9341 Freq:50.08Hz Lamp Flux:422.489x1 lm										
NAME: SJD-DW-6W-9D30-38°					TYPE:Downlight			SERIAL No.:		
SPEC.:3000K					DIM.: $\phi 82 \times 64$ mm					
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	17.8	18.7	18.0	18.9	19.1	17.0	17.9	17.2	18.0	18.2
3H	18.4	19.2	18.7	19.4	19.6	17.8	18.6	18.0	18.8	19.0
4H	18.8	19.6	19.0	19.8	20.0	18.3	19.1	18.6	19.4	19.6
6H	19.3	20.0	19.6	20.3	20.5	19.1	19.9	19.4	20.1	20.4
8H	19.6	20.3	19.9	20.5	20.8	19.6	20.3	19.9	20.6	20.8
12H	19.8	20.5	20.2	20.8	21.1	20.0	20.7	20.3	21.0	21.2
4H 2H	18.0	18.8	18.2	19.0	19.2	17.2	18.0	17.5	18.2	18.4
3H	18.8	19.5	19.1	19.8	20.0	18.3	19.0	18.6	19.3	19.5
4H	19.4	20.0	19.7	20.3	20.6	19.1	19.7	19.5	20.0	20.3
6H	20.1	20.7	20.5	21.0	21.4	20.2	20.7	20.6	21.1	21.4
8H	20.6	21.1	21.0	21.4	21.8	20.8	21.3	21.2	21.7	22.0
12H	21.0	21.5	21.4	21.8	22.2	21.3	21.8	21.8	22.2	22.6
8H 4H	19.7	20.2	20.1	20.6	20.9	19.5	20.0	19.9	20.4	20.7
6H	20.8	21.2	21.2	21.6	22.0	20.9	21.3	21.3	21.7	22.1
8H	21.4	21.8	21.9	22.2	22.6	21.7	22.1	22.1	22.5	22.9
12H	22.0	22.3	22.5	22.8	23.3	22.4	22.8	22.9	23.2	23.7
12H 4H	19.8	20.3	20.2	20.6	21.0	19.6	20.0	20.0	20.4	20.8
6H	21.0	21.4	21.4	21.8	22.2	21.1	21.5	21.5	21.9	22.3
8H	21.7	22.1	22.2	22.5	23.0	22.0	22.3	22.4	22.7	23.2
Variations with the observer position at spacings:										
S = 1.0H	+ 1.4 / - 0.7					+ 0.6 / - 0.4				
1.5H	+ 2.8 / - 0.7					+ 1.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 422.5 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = -3.0$ )

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
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Temperature:25.3DEG  
Operators:Jason  
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$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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:0.0361A P:7.438W PF:0.9341 Freq:50.08Hz Lamp Flux:422.489x1 lm		
NAME: SJD-DW-6W-9D30-38°	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: $\phi 82 \times 64$ mm	
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) $k(RI) \times RCR = 5$									
$k = 0.60$	87	81	77	87	80	77	86	80	77	73
0.80	94	88	85	94	88	84	92	87	84	80
1.00	99	93	89	98	92	89	96	92	88	84
1.25	103	97	94	101	97	93	100	95	92	88
1.50	105	100	97	104	100	96	102	98	95	91
2.00	108	104	100	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	106	104	106	104	102	95
4.00	113	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		

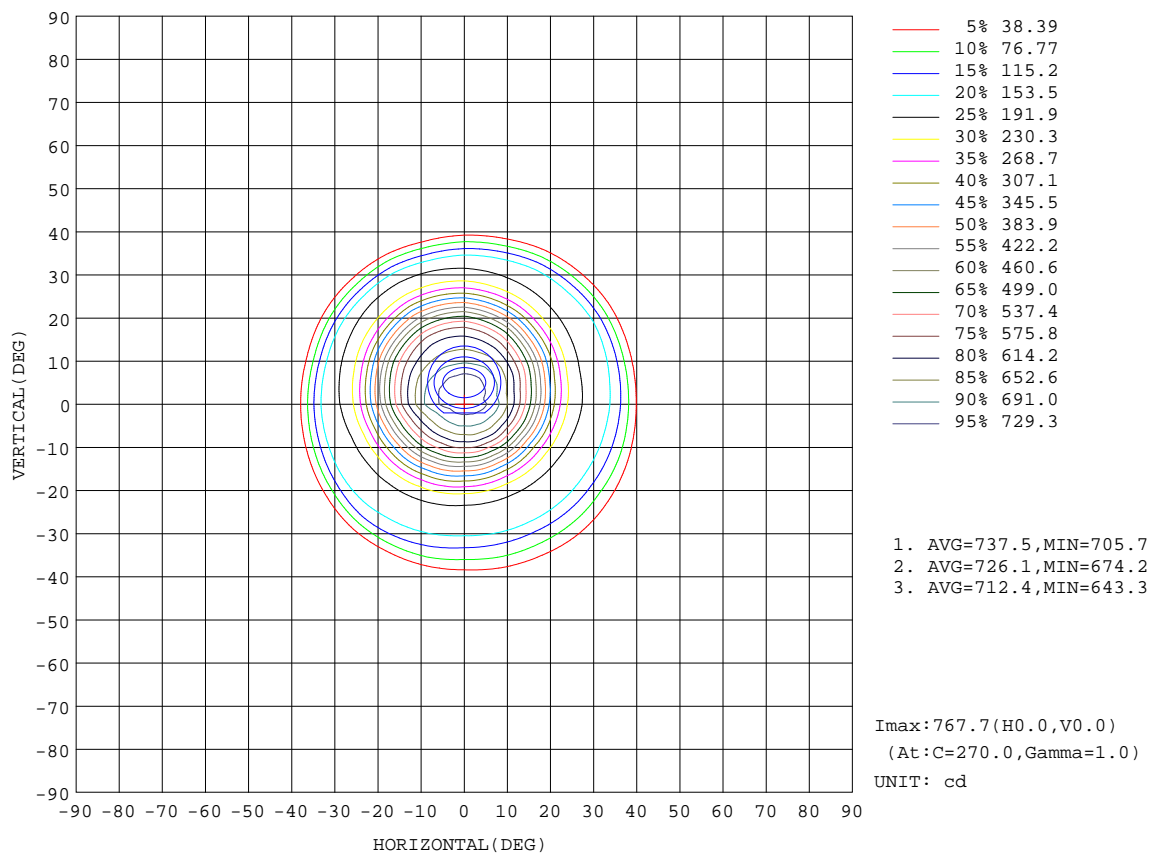
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ISOCANDELA DIAGRAM

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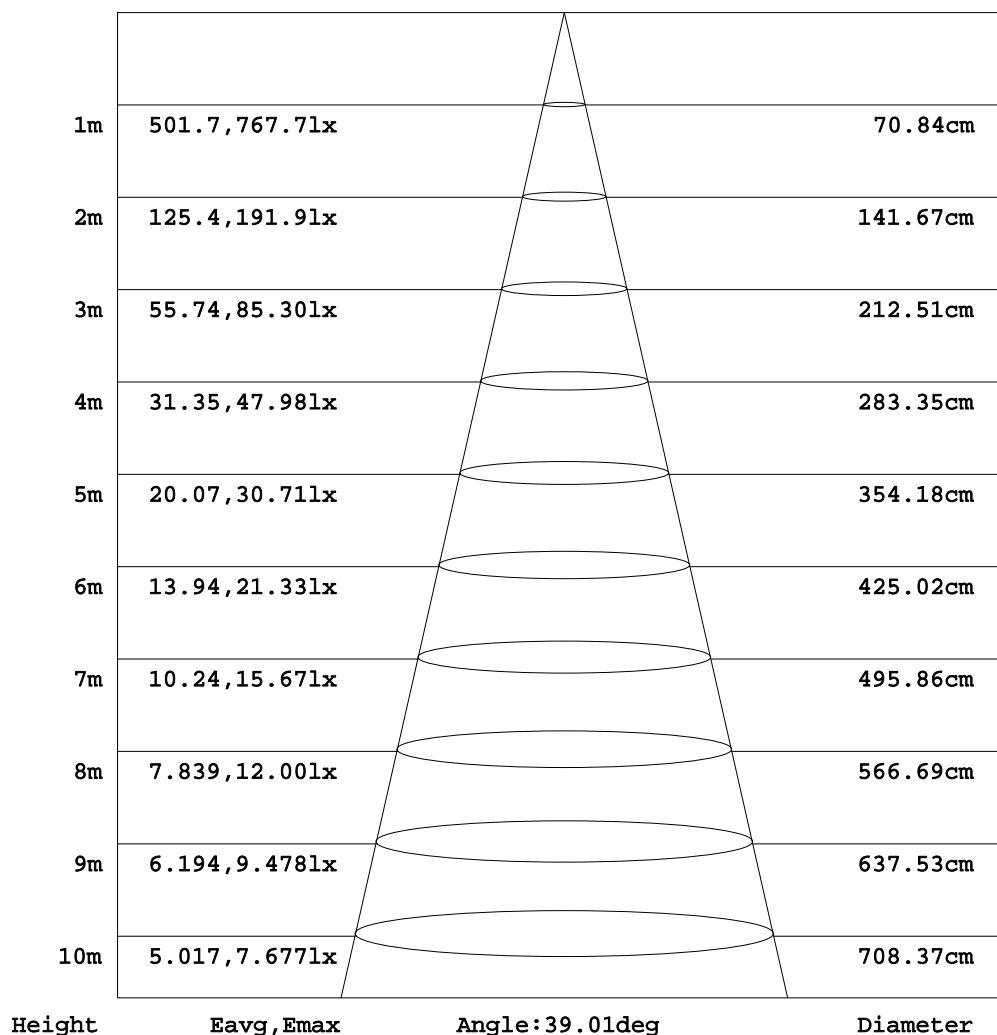
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**AAI Figure**

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SPEC.:3000K	DIM.: $\Phi 82 \times 64$ mm	
MFR.: NEKO LIGHTING AG		

Flux out:208.8 lm



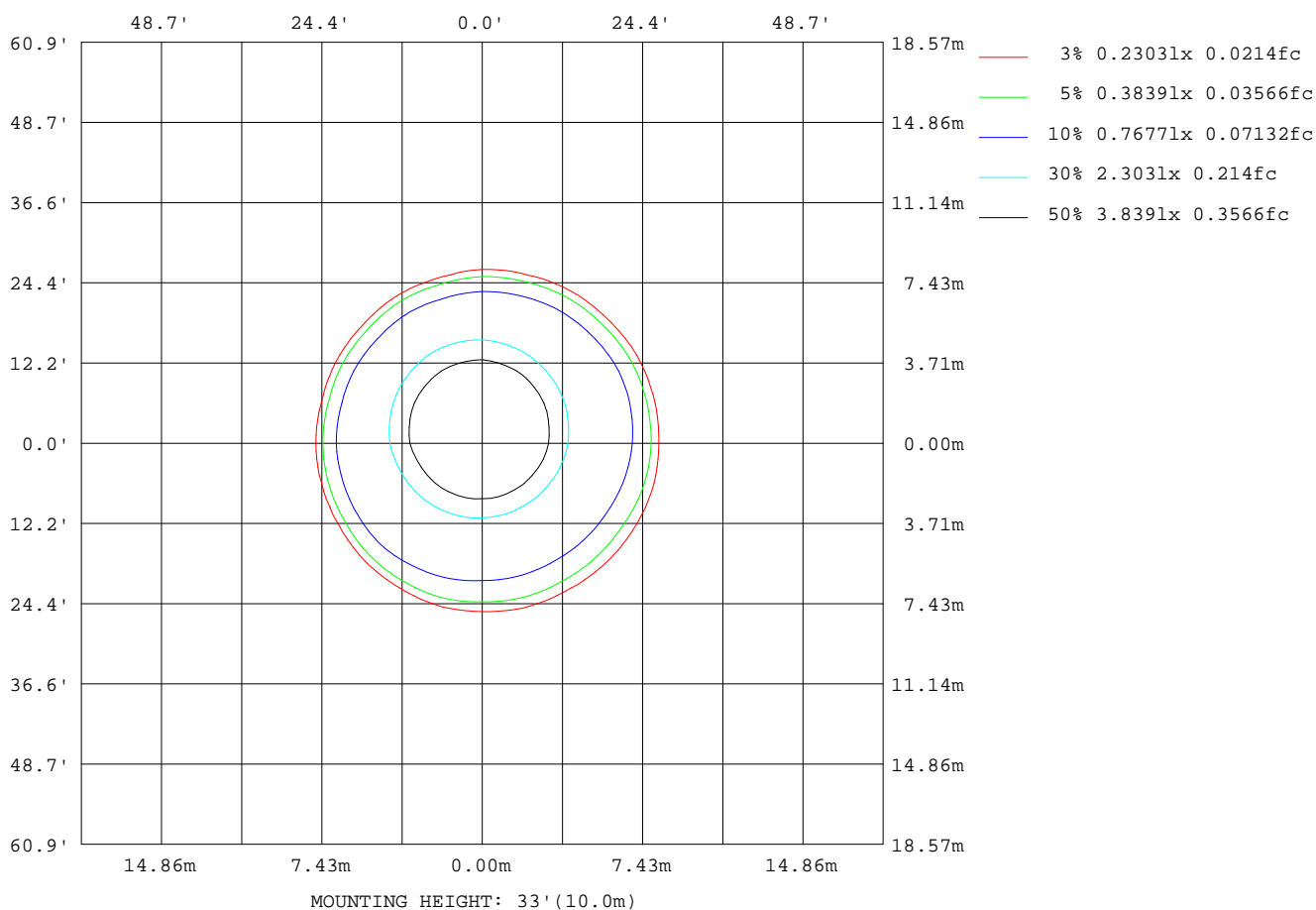
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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**ISOLUX DIAGRAM**

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SPEC.:3000K	DIM.: $\Phi$ 82*64mm	
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Remarks:

### LED Avg.L Report

Test:U:220.8V I:0.0361A P:7.438W PF:0.9341 Freq:50.08Hz Lamp Flux:422.489x1 lm		
NAME: SJD-DW-6W-9D30-38°	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: $\phi$ 82*64mm	
MFR.: NEKO LIGHTING AG		

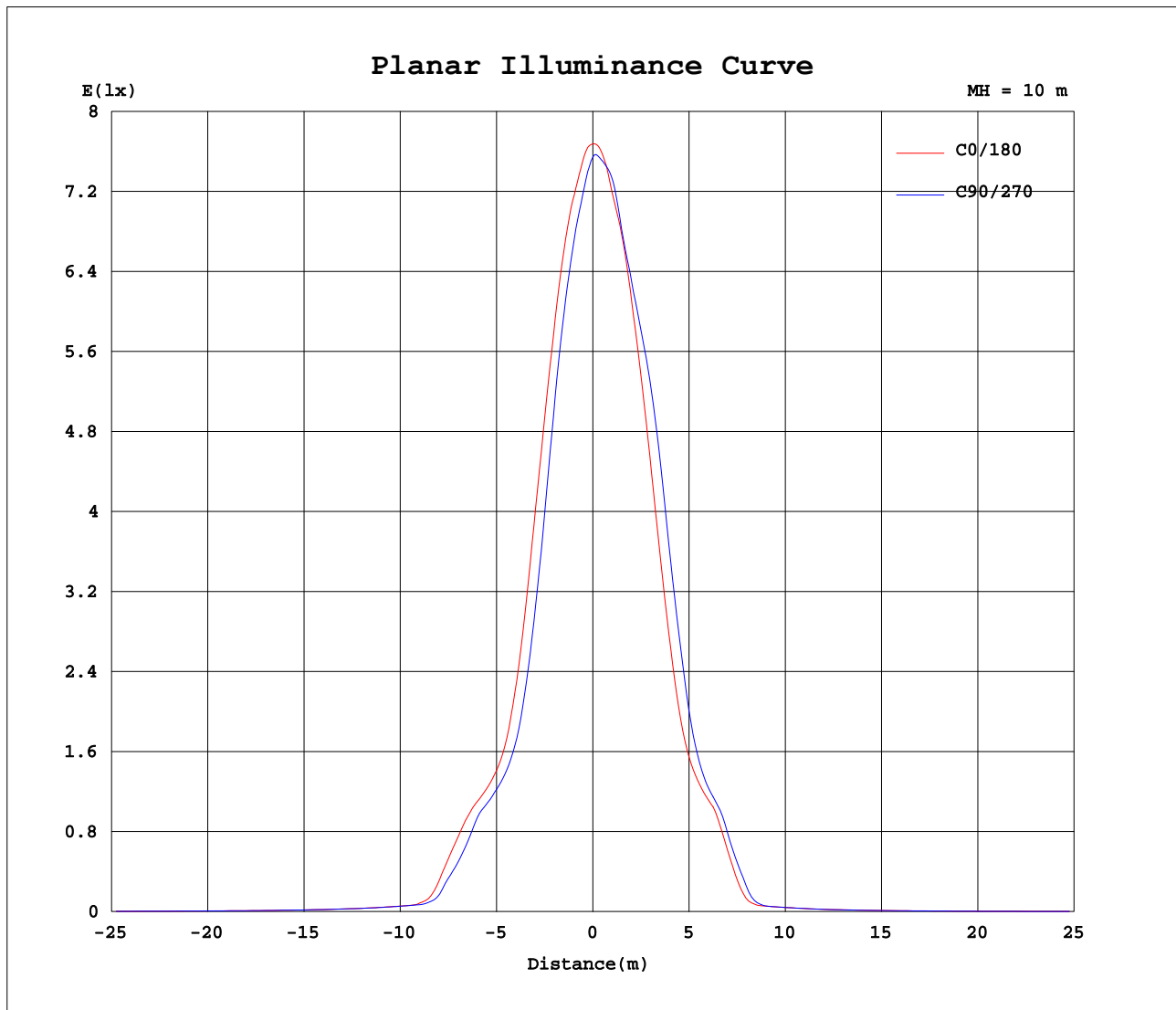
AvgL	cd/m2
L_0~180 (65) av	2718
L_0~180 (75) av	2642
L_0~180 (85) av	3798
L_90~270 (65) av	2789
L_90~270 (75) av	2796
L_90~270 (85) av	4399
L_45 (65) av	2753
L_45 (75) av	2718
L_45 (85) av	4128

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

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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:

```