

SJA1-9W-927-38°

Light Output Ratio:	100.0%	
Luminaire Power:	10.7 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: 2021-12-16

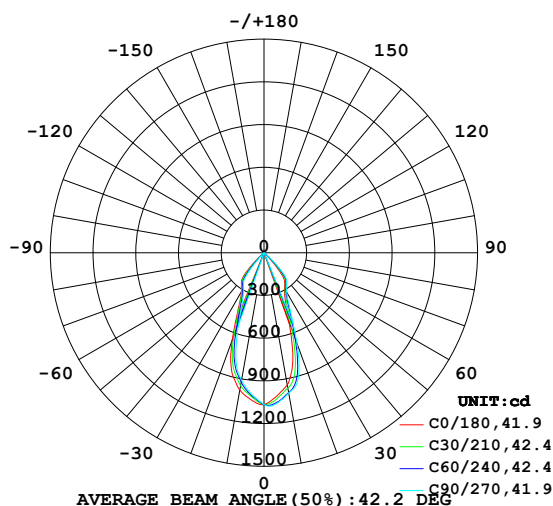
γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 8.967m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

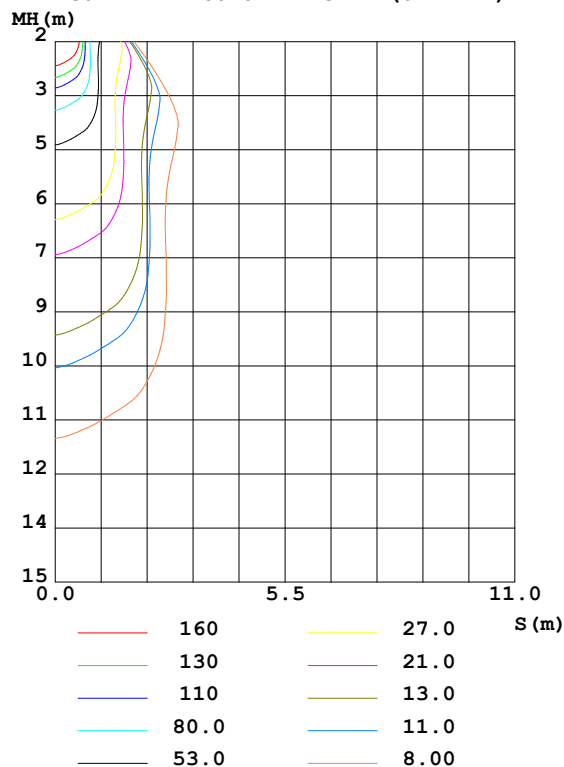
Test:U:220.9V I:0.0504A P:10.70W PF:0.9601 Freq:50.09Hz Lamp Flux:750.717x1 lm		
NAME: SJA1-9W-927-38°	TYPE:Downlight	SERIAL No.:
SPEC.:2700K	DIM.: φ70mm*H150mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 70.17 lm/W			
MODEL	Bridgelux-2700K	I _{max} (cd)	1079	S/MH(C0/180)	0.71
NOMINAL POWER(W)	10	LOR(%)	100.0	S/MH(C90/270)	0.65
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	750.72	η UP,DN(C0-180)	0.0,53.8
NOMINAL FLUX(lm)	750.717	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,46.2
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
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γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
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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	942.5	982.8	1000	1012	979.1	931.3	909.4	910.7	0- 10	95.84	95.84	12.8,12.8
20	514.6	616.9	679.7	680.9	654.3	587.9	511.4	474.0	10- 20	224.4	320.3	42.7,42.7
30	289.2	303.7	318.1	319.9	318.6	305.1	287.8	282.5	20- 30	184.8	505.1	67.3,67.3
40	176.6	233.5	244.2	248.1	238.7	191.6	145.7	131.1	30- 40	162.2	667.3	88.9,88.9
50	14.61	20.35	22.67	22.31	13.62	10.86	9.549	9.104	40- 50	68.38	735.7	98,98
60	5.024	7.921	8.264	5.781	5.303	4.889	4.396	3.939	50- 60	8.180	743.9	99.1,99.1
70	2.118	3.317	2.694	2.382	1.999	1.997	2.248	2.382	60- 70	3.622	747.5	99.6,99.6
80	0.9838	2.245	2.347	2.074	1.294	1.487	1.217	1.271	70- 80	2.295	749.8	99.9,99.9
90	0.0209	0.0157	0.4965	0.4181	0.1672	0.0418	0.0366	0.0314	80- 90	0.8982	750.7	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): 719.75 lm

%lum = 95.9%

%lamp = 95.9%

Conical surface Flux(120deg): 743.9 lm

%lum = 99.1%

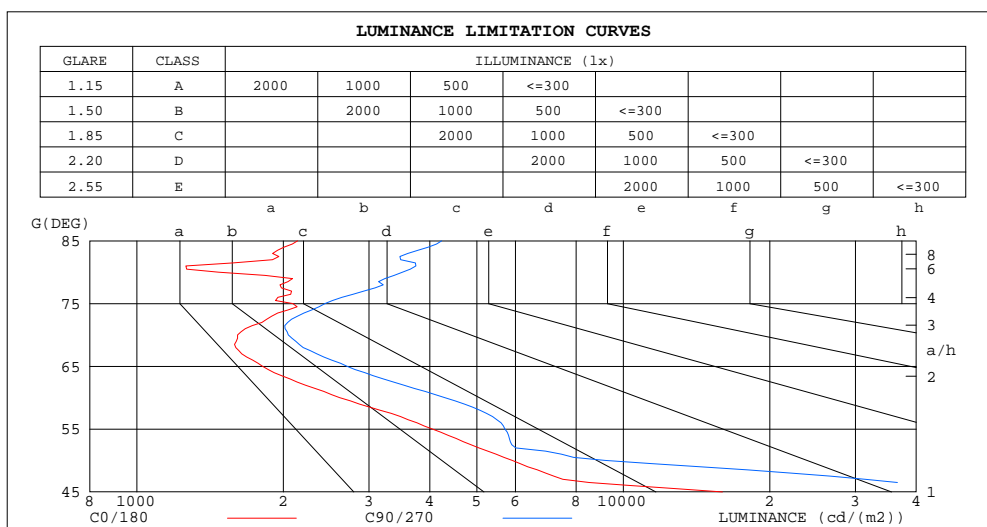
%lamp = 99.1%

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C Interval: 15.0DEG
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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:220.9V I:0.0504A P:10.70W PF:0.9601 Freq:50.09Hz Lamp Flux:750.717x1 lm		
NAME: SJA1-9W-927-38°	TYPE:Downlight	SERIAL No.:
SPEC.:2700K	DIM.: ϕ 70mm*H150mm	
MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	2140	4233
80	1473	3514
75	2092	2436
70	1610	2048
65	1812	2705
60	2613	4297
55	4049	5711
50	5910	9171
45	15983	51972

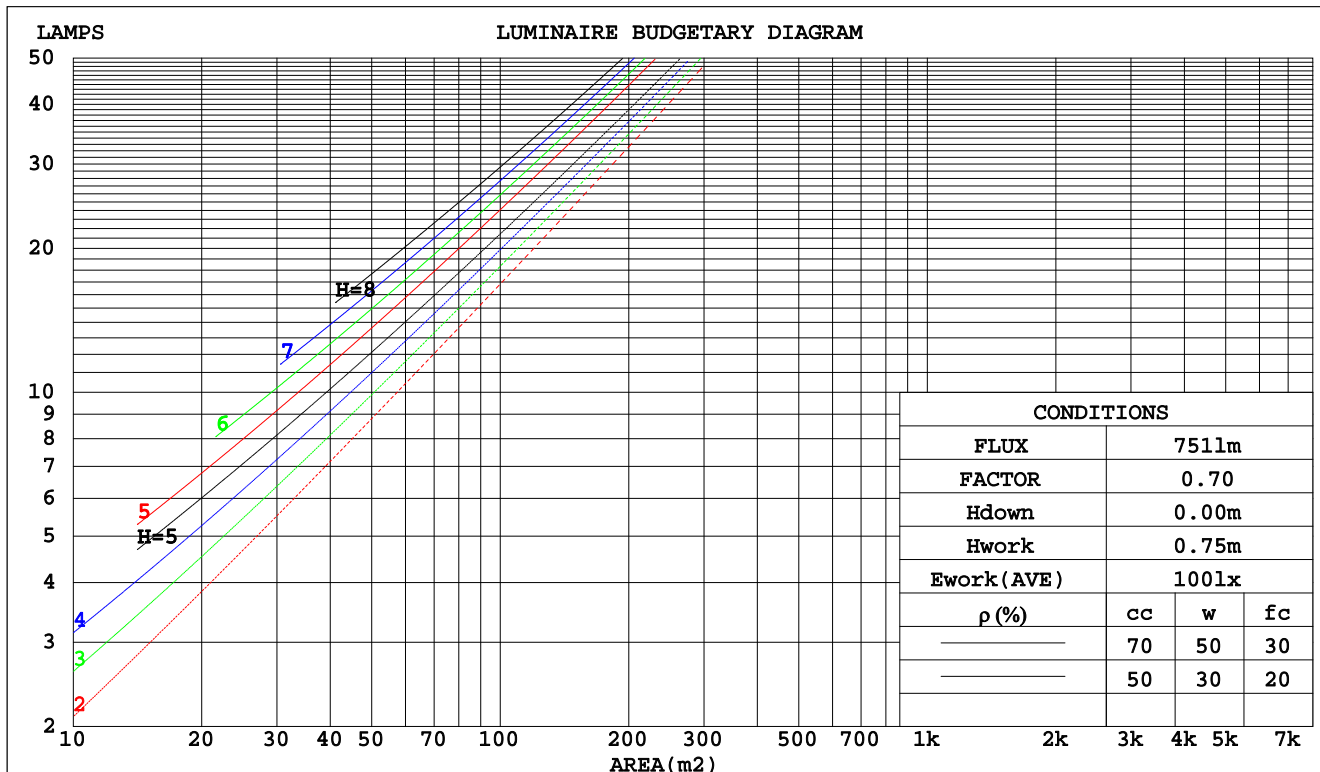
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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NAME: SJA1-9W-927-38°	TYPE:Downlight	SERIAL No.:
SPEC.:2700K	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	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	.95	1.01	.97	.94	.98	.95	.92	.95	.92	.90	.92	.90	.88	.87
3.0	.96	.91	.87	.94	.90	.86	.92	.88	.85	.89	.86	.83	.87	.84	.82	.81
4.0	.90	.84	.80	.88	.83	.79	.86	.82	.78	.84	.81	.77	.82	.79	.77	.75
5.0	.84	.78	.74	.83	.77	.73	.81	.76	.73	.79	.75	.72	.78	.74	.71	.70
6.0	.79	.73	.69	.78	.72	.68	.76	.72	.68	.75	.71	.67	.74	.70	.67	.65
7.0	.74	.68	.64	.73	.68	.64	.72	.67	.63	.71	.66	.63	.70	.66	.63	.61
8.0	.70	.64	.60	.69	.64	.60	.68	.63	.60	.67	.63	.59	.66	.62	.59	.58
9.0	.66	.60	.56	.66	.60	.56	.65	.60	.56	.64	.59	.56	.63	.59	.56	.54
10.0	.63	.57	.53	.62	.57	.53	.61	.56	.53	.61	.56	.53	.60	.56	.53	.51



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WEC AND CCEC

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SPEC.:2700K	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	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.180	.102	.032	.173	.099	.031	.161	.092	.029	.149	.086	.028	.139	.080	.026	
2.0	.172	.094	.029	.167	.092	.028	.156	.087	.027	.146	.082	.026	.137	.078	.024	
3.0	.164	.087	.026	.159	.085	.026	.150	.081	.025	.142	.078	.024	.134	.074	.023	
4.0	.156	.081	.024	.152	.080	.024	.144	.076	.023	.137	.074	.022	.130	.071	.022	
5.0	.149	.076	.022	.145	.074	.022	.138	.072	.021	.132	.070	.021	.126	.067	.020	
6.0	.142	.071	.020	.139	.070	.020	.133	.068	.020	.127	.066	.019	.122	.064	.019	
7.0	.135	.067	.019	.133	.066	.019	.127	.064	.019	.122	.063	.018	.118	.061	.018	
8.0	.129	.063	.018	.127	.062	.018	.122	.061	.017	.118	.060	.017	.113	.058	.017	
9.0	.124	.060	.017	.122	.059	.017	.117	.058	.016	.113	.057	.016	.109	.056	.016	
10.0	.119	.057	.016	.117	.056	.016	.113	.055	.016	.109	.054	.015	.106	.053	.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	.147	.135	.124	.100	.093	.086	.058	.054	.050	.018	.017	.016	
2.0	.156	.132	.112	.134	.114	.097	.092	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.144	.114	.089	.124	.098	.077	.085	.068	.054	.049	.040	.032	.016	.013	.010	
4.0	.134	.099	.072	.115	.085	.063	.079	.060	.044	.046	.035	.026	.015	.011	.009	
5.0	.125	.087	.059	.108	.076	.052	.074	.053	.036	.043	.031	.022	.014	.010	.007	
6.0	.118	.078	.049	.101	.068	.043	.070	.047	.030	.041	.028	.018	.013	.009	.006	
7.0	.111	.071	.042	.096	.061	.036	.066	.043	.026	.038	.025	.015	.012	.008	.005	
8.0	.106	.064	.036	.091	.056	.031	.063	.039	.022	.037	.023	.013	.012	.008	.004	
9.0	.101	.059	.031	.087	.051	.027	.060	.036	.019	.035	.021	.011	.011	.007	.004	
10.0	.096	.055	.027	.083	.048	.024	.057	.033	.017	.033	.020	.010	.011	.006	.003	

C Range: 0 - 360DEG
C Interval: 15.0DEG
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:220.9V I:0.0504A P:10.70W PF:0.9601 Freq:50.09Hz Lamp Flux:750.717x1 lm										
NAME: SJA1-9W-927-38°					TYPE:Downlight			SERIAL No.:		
SPEC.:2700K					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	21.0	22.0	21.2	22.1	22.3	22.4	23.3	22.6	23.5	23.7
3H	20.8	21.7	21.1	21.9	22.1	22.2	23.1	22.5	23.3	23.5
4H	20.8	21.6	21.0	21.8	22.0	22.2	23.0	22.4	23.2	23.4
6H	20.7	21.5	21.0	21.7	22.0	22.1	22.9	22.4	23.1	23.4
8H	20.7	21.4	21.0	21.7	21.9	22.1	22.8	22.4	23.1	23.4
12H	20.6	21.3	20.9	21.6	21.9	22.1	22.8	22.4	23.0	23.3
4H 2H	20.8	21.6	21.1	21.8	22.1	22.1	23.0	22.4	23.2	23.4
3H	20.6	21.3	20.9	21.6	21.9	22.0	22.7	22.3	23.0	23.3
4H	20.6	21.2	20.9	21.5	21.8	21.9	22.6	22.3	22.9	23.2
6H	20.5	21.1	20.9	21.4	21.7	21.9	22.5	22.3	22.8	23.2
8H	20.5	21.0	20.9	21.3	21.7	21.9	22.4	22.3	22.8	23.2
12H	20.4	20.9	20.8	21.3	21.7	21.9	22.4	22.3	22.7	23.1
8H 4H	20.4	21.0	20.8	21.3	21.7	21.8	22.4	22.2	22.7	23.1
6H	20.4	20.8	20.8	21.2	21.6	21.8	22.2	22.2	22.6	23.1
8H	20.4	20.8	20.8	21.2	21.6	21.8	22.2	22.3	22.6	23.1
12H	20.3	20.7	20.8	21.1	21.6	21.8	22.1	22.3	22.6	23.1
12H 4H	20.4	20.9	20.8	21.3	21.7	21.8	22.3	22.2	22.6	23.0
6H	20.4	20.7	20.8	21.2	21.6	21.8	22.2	22.2	22.6	23.0
8H	20.3	20.7	20.8	21.1	21.6	21.8	22.1	22.2	22.5	23.0
Variations with the observer position at spacings:										
S = 1.0H	+ 2.4 / - 9.9					+ 2.7 / - 8.1				
1.5H	+ 4.8 / - 8.9					+ 3.7 / - 8.2				
2.0H	+ 5.0 / - 2.9					+ 7.5 / - 5.2				

CIE Pub.117, 750.7 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -1.0$)

C Range: 0 - 360DEG
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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

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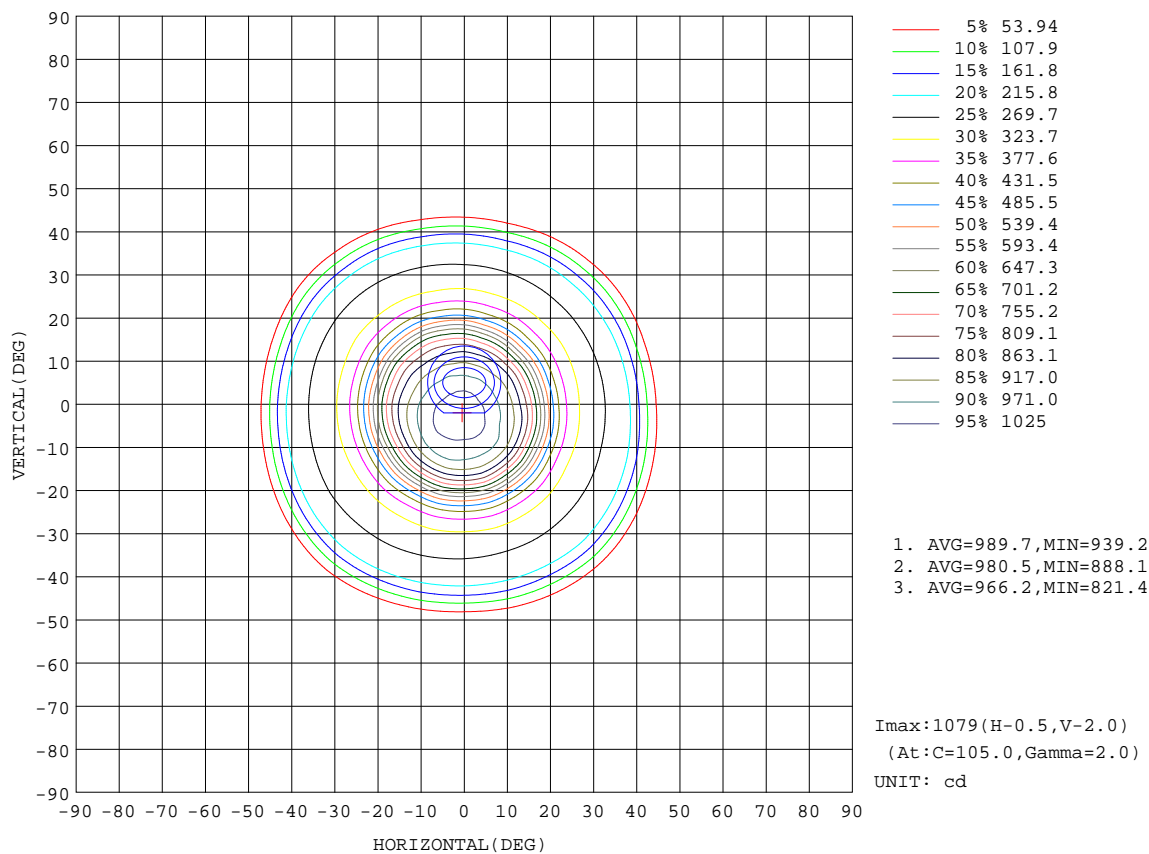
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	85	78	74	84	78	74	83	77	73	70
0.80	93	86	82	92	86	82	91	85	82	78
1.00	98	92	88	97	91	87	95	91	87	83
1.25	102	96	93	101	96	92	99	95	92	87
1.50	105	100	96	104	99	96	101	98	95	90
2.00	108	103	100	106	102	99	104	100	98	92
2.50	110	106	102	108	104	102	105	102	100	94
3.00	111	108	105	109	106	104	106	104	101	95
4.00	113	110	108	111	109	107	108	106	104	97
5.00	115	112	110	112	110	109	108	107	105	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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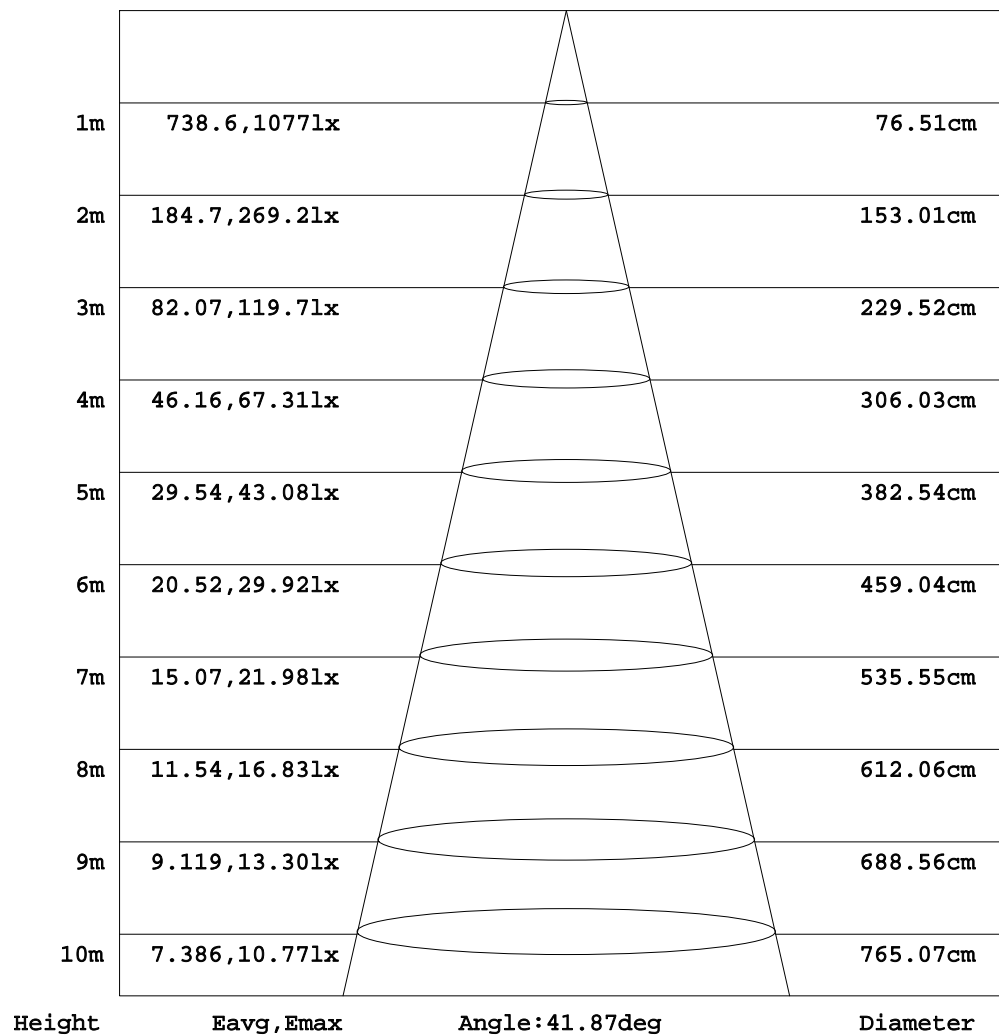
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AAI Figure

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SPEC.:2700K	DIM.: φ70mm*H150mm	
MFR.: NEKO LIGHTING AG		

Flux out:341.9 lm



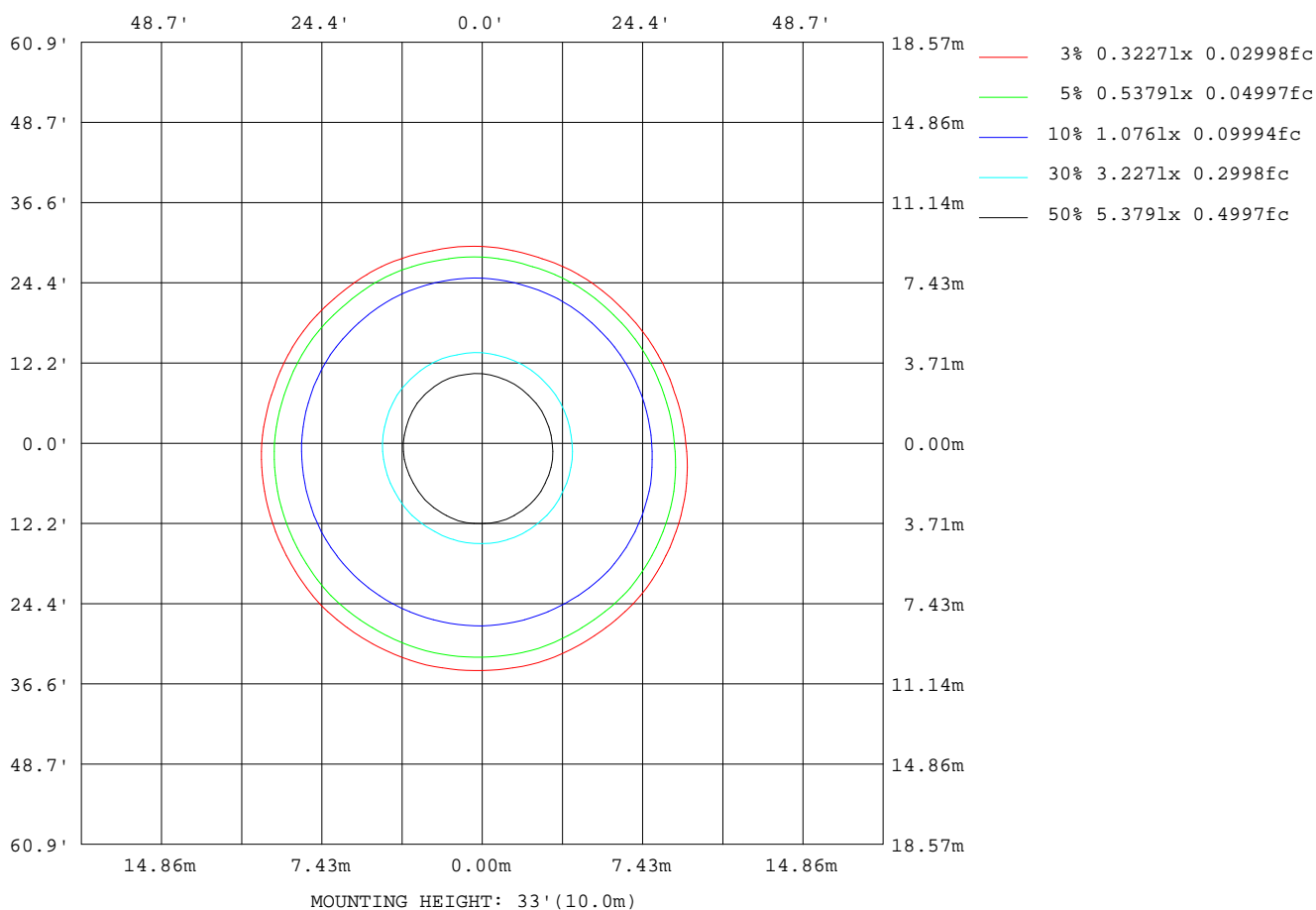
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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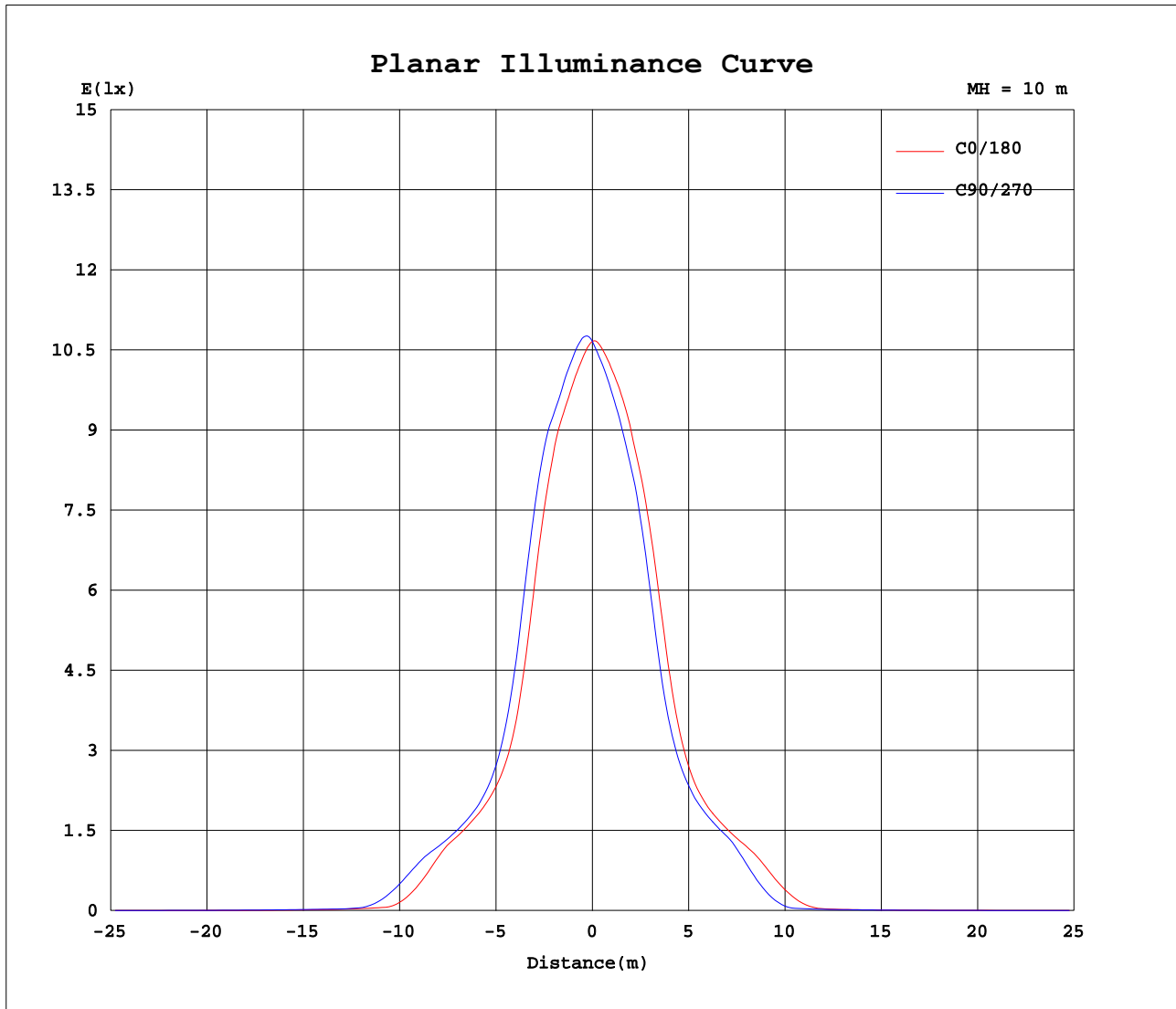
AvgL	cd/m2
L_0~180 (65) av	1910
L_0~180 (75) av	1905
L_0~180 (85) av	2033
L_90~270 (65) av	2183
L_90~270 (75) av	2295
L_90~270 (85) av	2831
L_45 (65) av	2199
L_45 (75) av	2323
L_45 (85) av	2432

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2021-12-16

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: 15.0DEG
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:

```

```

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:

```