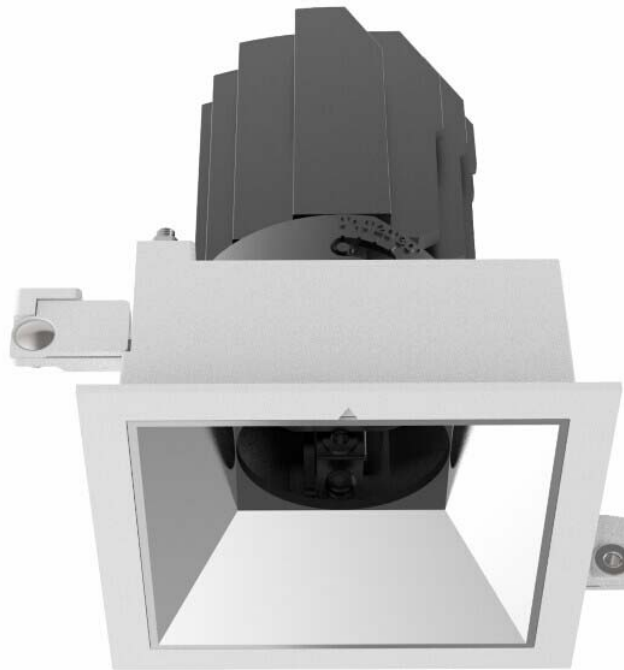


S68S1-13W-DW-918-W



Light Output Ratio:	100.0%	
Luminaire Power:	1.779 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.80	fine grid method.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2020-12-24

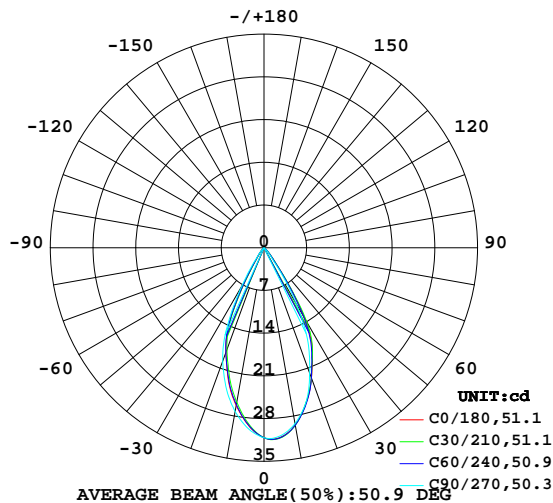
γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 8.967m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

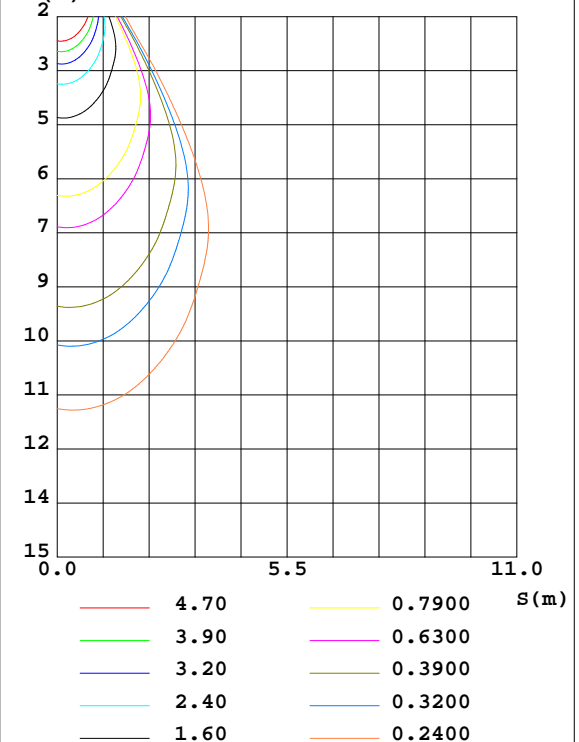
Test:U:220.2V I:0.0103A P:1.779W PF:0.6057 Freq:49.99Hz Lamp Flux:20.0361x1 lm		
NAME: S68S1-13W-DW-918-W	TYPE:Downlight	SERIAL No.:
SPEC.:1800K	DIM.: L78mm*L78mm*H98mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 11.26 lm/W			
MODEL	BRIDGELUX-1800K	Imax(cd)	31.52	S/MH(C0/180)	0.71
NOMINAL POWER(W)	13	LOR(%)	100.0	S/MH(C90/270)	0.73
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	20.036	η UP,DN(C0-180)	0.0,53.5
NOMINAL FLUX(lm)	20.0361	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,46.5
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	0.80

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:2020-12-24

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:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	29.47	29.67	29.26	27.93	26.24	25.73	27.24	28.99	0- 10	2.819	2.819	14.1,14.1
20	22.76	22.84	21.90	20.27	18.24	17.88	19.79	22.08	10- 20	6.883	9.702	48.4,48.4
30	13.21	13.90	10.61	8.506	5.828	5.425	7.420	10.68	20- 30	7.078	16.78	83.7,83.7
40	1.819	2.063	1.426	1.463	0.8557	1.011	1.001	1.948	30- 40	2.635	19.41	96.9,96.9
50	0.3226	0.5221	0.1655	0.2779	0.0305	0.2208	0.0102	0.4545	40- 50	0.5555	19.97	99.7,99.7
60	0.0206	0	0.0051	0	0	0.0103	0	0.0259	50- 60	0.0643	20.03	100,100
70	0	0	0	0	0	0	0	0	60- 70	0.0013	20.04	100,100
80	0	0	0	0	0	0	0	0	70- 80	0.0000	20.04	100,100
90	0	0	0	0	0	0	0	0	80- 90	0	20.04	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): 19.792 lm

%lum = 98.8%

%lamp = 98.8%

Conical surface Flux(120deg): 20.035 lm

%lum = 100.0%

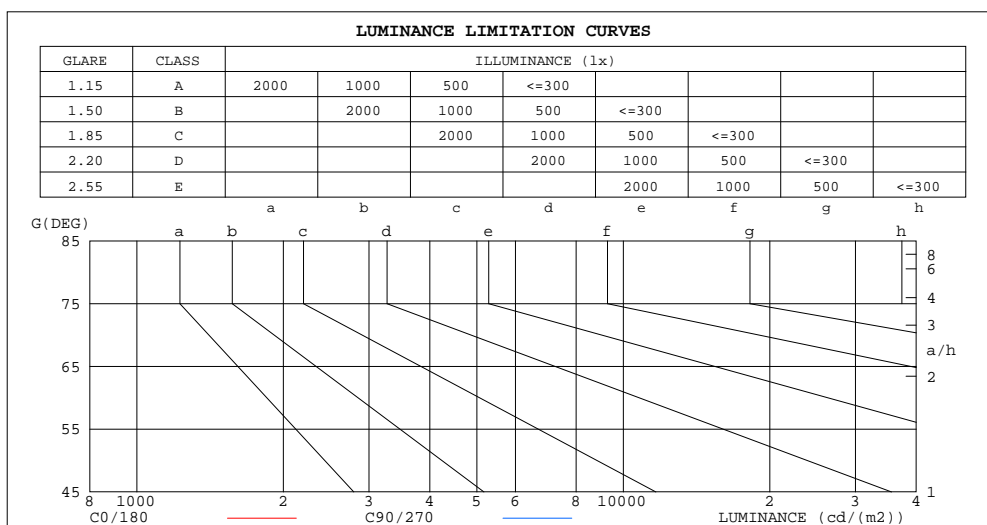
%lamp = 100.0%

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2020-12-24

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:220.2V I:0.0103A P:1.779W PF:0.6057 Freq:49.99Hz Lamp Flux:20.0361x1 lm		
NAME: S68S1-13W-DW-918-W	TYPE:Downlight	SERIAL No.:
SPEC.:1800K	DIM.: L78mm*L78mm*H98mm	
MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	0	0
80	0	0
75	0	0
70	0	0
65	0	0
60	7	2
55	19	13
50	83	42
45	214	157

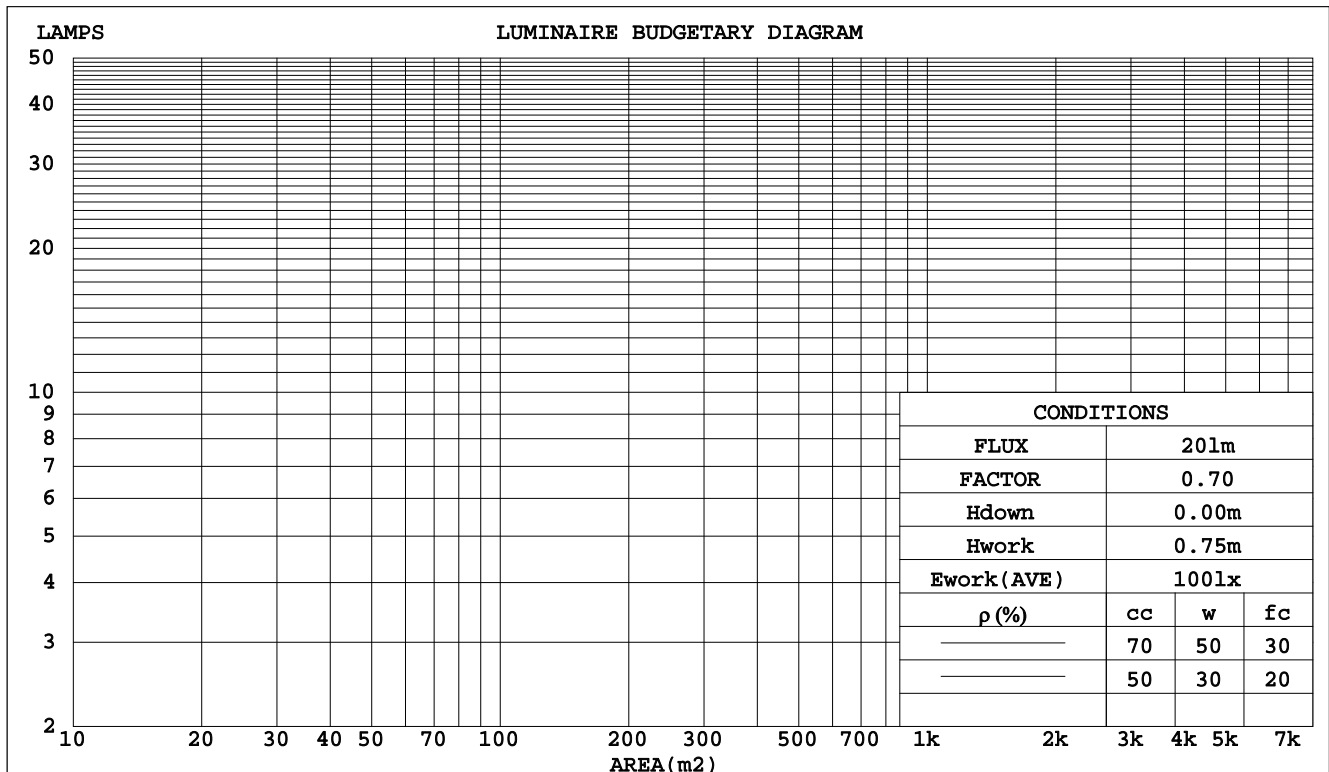
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2020-12-24

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.2V I:0.0103A P:1.779W PF:0.6057 Freq:49.99Hz Lamp Flux:20.0361x1 lm		
NAME: S68S1-13W-DW-918-W	TYPE:Downlight	SERIAL No.:
SPEC.:1800K	DIM.: L78mm*L78mm*H98mm	
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	.00
1.0	1.11	1.09	1.07	1.09	1.07	1.05	1.05	1.04	1.02	1.02	1.00	.99	.98	.97	.96	.95
2.0	1.05	1.01	.98	1.03	.00	.97	.00	.97	.95	.97	.95	.93	.94	.92	.91	.89
3.0	.98	.94	.90	.97	.93	.90	.94	.91	.88	.92	.89	.87	.90	.88	.86	.84
4.0	.93	.88	.84	.92	.87	.83	.90	.86	.83	.88	.84	.82	.86	.83	.81	.79
5.0	.88	.82	.79	.87	.82	.78	.85	.81	.77	.83	.80	.77	.82	.79	.76	.75
6.0	.83	.78	.74	.82	.77	.73	.81	.76	.73	.79	.76	.73	.78	.75	.72	.71
7.0	.79	.73	.69	.78	.73	.69	.77	.72	.69	.76	.72	.69	.75	.71	.68	.67
8.0	.75	.69	.66	.74	.69	.66	.73	.69	.65	.72	.68	.65	.71	.68	.65	.63
9.0	.71	.66	.62	.71	.66	.62	.70	.65	.62	.69	.65	.62	.68	.64	.61	.60
10.0	.68	.63	.59	.67	.62	.59	.67	.62	.59	.66	.62	.59	.65	.61	.58	.57



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2020-12-24

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:

WEC AND CCEC

Test:U:220.2V I:0.0103A P:1.779W PF:0.6057 Freq:49.99Hz Lamp Flux:20.0361x1 lm		
NAME: S68S1-13W-DW-918-W	TYPE:Downlight	SERIAL No.:
SPEC.:1800K	DIM.: L78mm*L78mm*H98mm	
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	.164	.093	.030	.157	.090	.028	.145	.083	.027	.133	.077	.025	.123	.071	.023	
2.0	.156	.085	.026	.150	.083	.025	.140	.078	.024	.130	.073	.023	.121	.069	.022	
3.0	.148	.079	.024	.143	.077	.023	.134	.073	.022	.126	.069	.021	.118	.066	.020	
4.0	.141	.073	.021	.137	.072	.021	.129	.068	.020	.122	.066	.020	.115	.063	.019	
5.0	.134	.068	.020	.131	.067	.020	.124	.065	.019	.118	.062	.019	.112	.060	.018	
6.0	.128	.064	.018	.125	.063	.018	.119	.061	.018	.114	.059	.017	.109	.057	.017	
7.0	.123	.061	.017	.120	.060	.017	.115	.058	.017	.110	.056	.016	.106	.055	.016	
8.0	.118	.057	.016	.115	.057	.016	.111	.055	.016	.106	.054	.016	.102	.053	.015	
9.0	.113	.055	.015	.111	.054	.015	.107	.053	.015	.103	.052	.015	.099	.050	.015	
10.0	.109	.052	.014	.107	.052	.014	.103	.050	.014	.100	.049	.014	.096	.048	.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	.170	.157	.146	.146	.135	.126	.100	.093	.087	.057	.054	.051	.018	.017	.016		
2.0	.154	.133	.114	.132	.114	.099	.090	.079	.069	.052	.046	.040	.017	.015	.013		
3.0	.141	.113	.092	.121	.098	.079	.083	.068	.056	.048	.040	.033	.015	.013	.011		
4.0	.130	.099	.074	.112	.085	.065	.077	.059	.046	.044	.035	.027	.014	.011	.009		
5.0	.121	.087	.061	.104	.075	.053	.072	.052	.038	.041	.031	.022	.013	.010	.007		
6.0	.113	.077	.051	.097	.067	.045	.067	.047	.032	.039	.028	.019	.013	.009	.006		
7.0	.107	.070	.044	.092	.060	.038	.063	.042	.027	.037	.025	.016	.012	.008	.005		
8.0	.101	.063	.037	.087	.055	.033	.060	.039	.023	.035	.023	.014	.011	.007	.005		
9.0	.096	.058	.032	.083	.050	.028	.057	.035	.020	.033	.021	.012	.011	.007	.004		
10.0	.091	.054	.028	.079	.046	.025	.055	.033	.018	.032	.019	.010	.010	.006	.003		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2020-12-24

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:220.2V I:0.0103A P:1.779W PF:0.6057 Freq:49.99Hz Lamp Flux:20.0361x1 lm										
NAME: S68S1-13W-DW-918-W					TYPE:Downlight			SERIAL No.:		
SPEC.:1800K					DIM.: L78mm*L78mm*H98mm					
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	17.7	18.5	17.9	18.7	18.9	16.7	17.5	16.9	17.7	17.8
3H	17.5	18.3	17.8	18.5	18.7	16.5	17.3	16.7	17.5	17.7
4H	17.4	18.2	17.7	18.4	18.6	16.4	17.2	16.7	17.4	17.6
6H	17.3	18.0	17.6	18.3	18.5	16.3	17.0	16.6	17.3	17.5
8H	17.3	18.0	17.6	18.2	18.5	16.3	17.0	16.6	17.2	17.5
12H	17.2	17.9	17.6	18.2	18.4	16.2	16.9	16.5	17.1	17.4
4H 2H	17.4	18.2	17.7	18.4	18.6	16.4	17.2	16.7	17.4	17.6
3H	17.2	17.9	17.6	18.2	18.4	16.2	16.9	16.6	17.1	17.4
4H	17.1	17.7	17.5	18.0	18.3	16.1	16.7	16.5	17.0	17.3
6H	17.1	17.6	17.4	17.9	18.2	16.0	16.6	16.4	16.9	17.2
8H	17.0	17.5	17.4	17.8	18.2	16.0	16.5	16.4	16.8	17.2
12H	16.9	17.4	17.4	17.8	18.1	15.9	16.4	16.3	16.7	17.1
8H 4H	17.0	17.5	17.4	17.8	18.2	16.0	16.5	16.4	16.8	17.2
6H	16.9	17.3	17.3	17.7	18.1	15.9	16.3	16.3	16.7	17.1
8H	16.8	17.2	17.3	17.6	18.0	15.8	16.2	16.3	16.6	17.0
12H	16.8	17.1	17.2	17.5	18.0	15.8	16.1	16.2	16.5	17.0
12H 4H	16.9	17.4	17.4	17.8	18.1	15.9	16.4	16.3	16.7	17.1
6H	16.8	17.2	17.3	17.6	18.0	15.8	16.2	16.3	16.6	17.0
8H	16.8	17.1	17.2	17.5	18.0	15.8	16.1	16.2	16.5	17.0
Variations with the observer position at spacings:										
S = 1.0H	+ 3.4 / -27.1					+ 2.8 / -27.3				
1.5H	+ 5.4 / -13.7					+ 4.6 / -13.6				
2.0H	+ 6.8 / - 1.5					+ 6.1 / -31.4				

CIE Pub.117, 20.04 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -13.6$)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2020-12-24

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:220.2V I:0.0103A P:1.779W PF:0.6057 Freq:49.99Hz Lamp Flux:20.0361x1 lm		
NAME: S68S1-13W-DW-918-W	TYPE:Downlight	SERIAL No.:
SPEC.:1800K	DIM.: L78mm*L78mm*H98mm	
MFR.: NEKO LIGHTING AG		

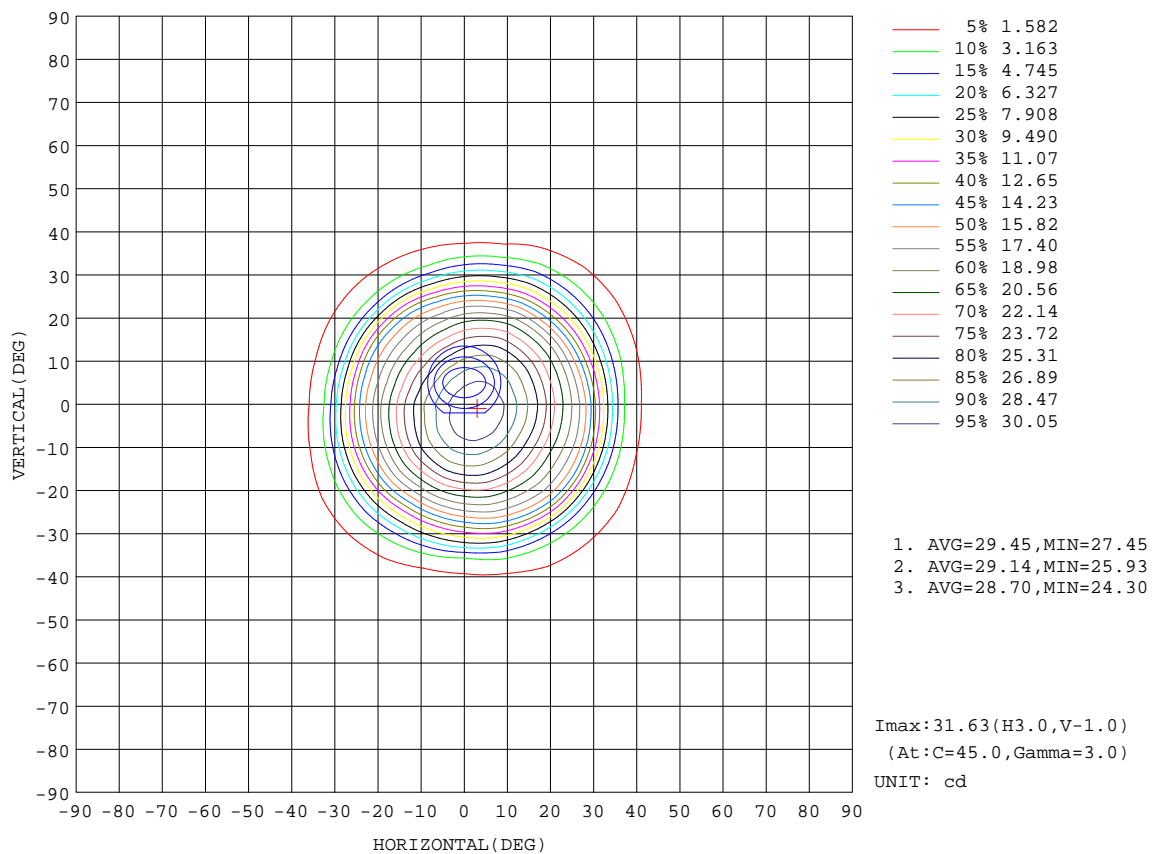
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	90	84	80	89	84	80	88	83	80	77
0.80	97	91	88	96	91	88	95	90	87	84
1.00	101	96	92	100	95	92	99	95	92	88
1.25	105	100	97	104	99	96	102	98	95	91
1.50	107	103	100	106	102	99	104	101	98	94
2.00	109	106	103	108	105	102	105	103	100	95
2.50	111	107	105	109	106	104	106	104	102	96
3.00	112	109	107	111	108	106	107	105	103	97
4.00	114	112	110	112	110	108	109	107	106	99
5.00	115	113	112	113	112	110	109	108	107	100
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Jason
 Test Date:2020-12-24

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:

ISOCANDELA DIAGRAM

Test:U:220.2V I:0.0103A P:1.779W PF:0.6057 Freq:49.99Hz Lamp Flux:20.0361x1 lm		
NAME: S68S1-13W-DW-918-W	TYPE:Downlight	SERIAL No.:
SPEC.:1800K	DIM.: L78mm*L78mm*H98mm	
MFR.: NEKO LIGHTING AG		



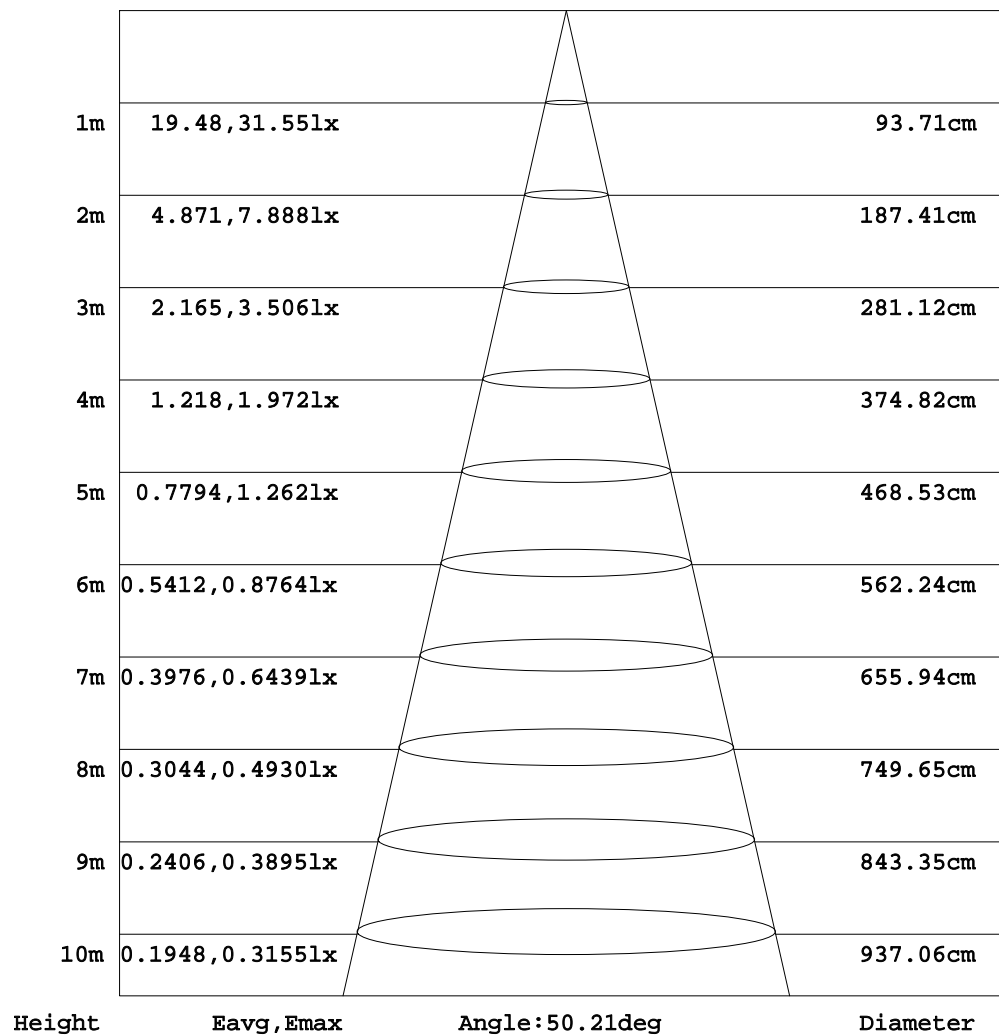
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2020-12-24

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:

AAI Figure

Test:U:220.2V I:0.0103A P:1.779W PF:0.6057 Freq:49.99Hz Lamp Flux:20.0361x1 lm		
NAME: S68S1-13W-DW-918-W	TYPE:Downlight	SERIAL No.:
SPEC.:1800K	DIM.: L78mm*L78mm*H98mm	
MFR.: NEKO LIGHTING AG		

Flux out:13.93 lm



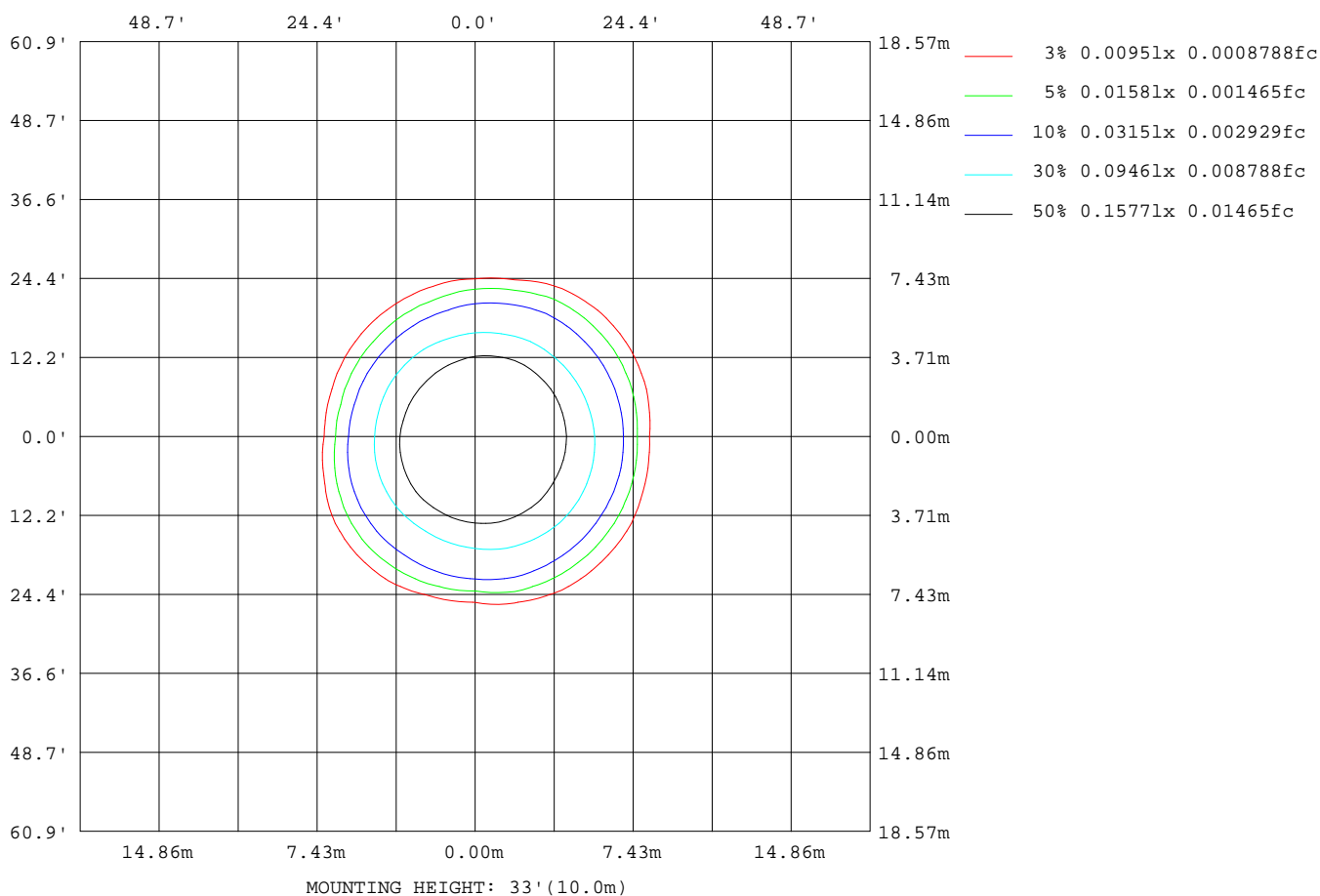
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2020-12-24

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:

ISOLUX DIAGRAM

Test:U:220.2V I:0.0103A P:1.779W PF:0.6057 Freq:49.99Hz Lamp Flux:20.0361x1 lm		
NAME: S68S1-13W-DW-918-W	TYPE:Downlight	SERIAL No.:
SPEC.:1800K	DIM.: L78mm*L78mm*H98mm	
MFR.: NEKO LIGHTING AG		



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2020-12-24

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:

LED Avg.L Report

Test:U:220.2V I:0.0103A P:1.779W PF:0.6057 Freq:49.99Hz Lamp Flux:20.0361x1 lm		
NAME: S68S1-13W-DW-918-W	TYPE:Downlight	SERIAL No.:
SPEC.:1800K	DIM.: L78mm*L78mm*H98mm	
MFR.: NEKO LIGHTING AG		

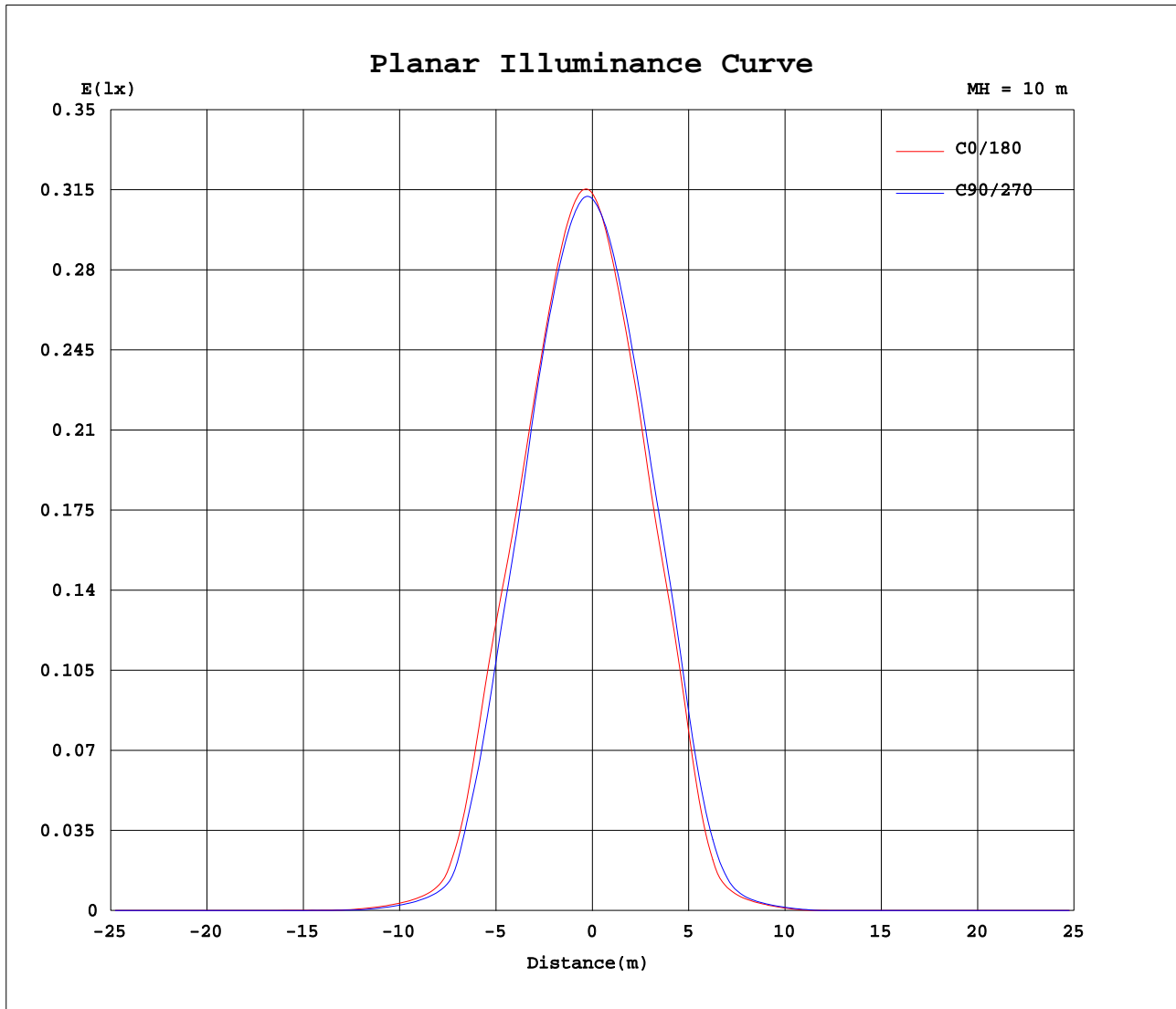
AvgL	cd/m2
L_0~180(65)av	0
L_0~180(75)av	0
L_0~180(85)av	0
L_90~270(65)av	0
L_90~270(75)av	0
L_90~270(85)av	0
L_45(65)av	1
L_45(75)av	0
L_45(85)av	0

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2020-12-24

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



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Test Speed: HIGH
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