

FL450-SL450-3S-15W-840-15



Light Output Ratio:	100.0%	
Luminaire Power:	14.81 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	1.00	fine grid method.

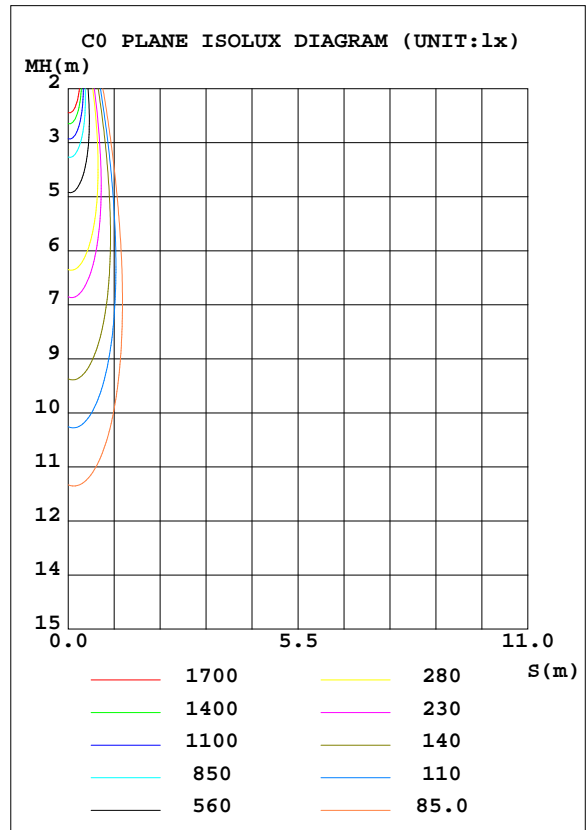
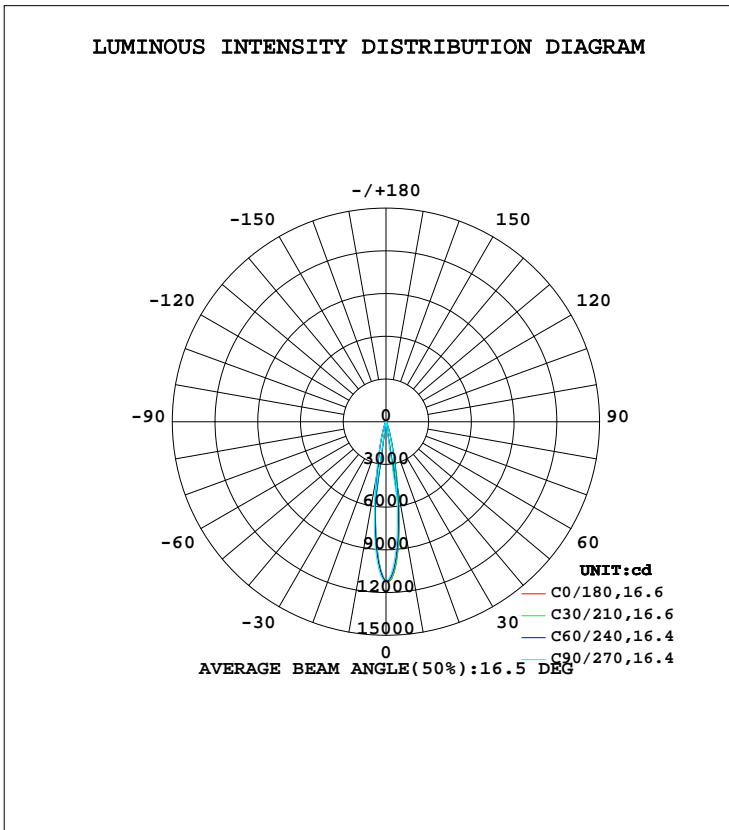
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Myles
Test Date: 2019-03-13

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 56%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:221.0V I:0.0694A P:14.81W PF:0.9683 Freq:49.90Hz Lamp Flux:1324.95x1 lm		
NAME: FL450-SL450-3S-15W-840-15	TYPE:Spotlight	SERIAL No.:
SPEC.:4000K	DIM.: L450mm*W45mm*H73mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 89.46 lm/W			
MODEL	CREE-4000K	I _{max} (cd)	11294	S/MH(C0/180)	0.26
NOMINAL POWER(W)	15	LOR(%)	100.0	S/MH(C90/270)	0.28
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	1325.0	η UP, DN(C0-180)	0.0,50.9
NOMINAL FLUX(lm)	1324.95	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,49.1
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	1.00



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ZONAL FLUX DIAGRAM

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γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	478.4	472.5	398.2	377.7	360.3	354.7	401.7	446.0	0- 10	673.3	673.3	50.8,50.8
20	63.47	67.49	60.88	55.85	52.75	54.43	56.58	64.74	10- 20	457.8	1131	85.4,85.4
30	13.10	13.71	12.27	11.64	11.26	11.32	12.49	12.72	20- 30	130.8	1262	95.2,95.2
40	3.881	4.031	3.733	3.661	3.615	3.635	3.844	3.898	30- 40	43.07	1305	98.5,98.5
50	1.013	0.9725	0.9139	0.8575	0.9048	0.8823	0.9952	0.9550	40- 50	15.25	1320	99.6,99.6
60	0.1566	0.1439	0.1335	0.1204	0.1261	0.1176	0.1495	0.1509	50- 60	4.129	1324	100,100
70	0.0169	0.0162	0.0180	0.0153	0.0143	0.0155	0.0133	0.0154	60- 70	0.4431	1325	100,100
80	0.0069	0.0050	0.0072	0.0048	0.0037	0.0053	0.0033	0.0053	70- 80	0.0995	1325	100,100
90	0.0043	0.0042	0.0044	0.0042	0.0030	0.0031	0.0028	0.0028	80- 90	0.0438	1325	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:×10cd									UNIT:lm		

Conical surface Flux(90deg): 1314.9 lm

%lum = 99.2%

%lamp = 99.2%

Conical surface Flux(120deg): 1324.4 lm

%lum = 100.0%

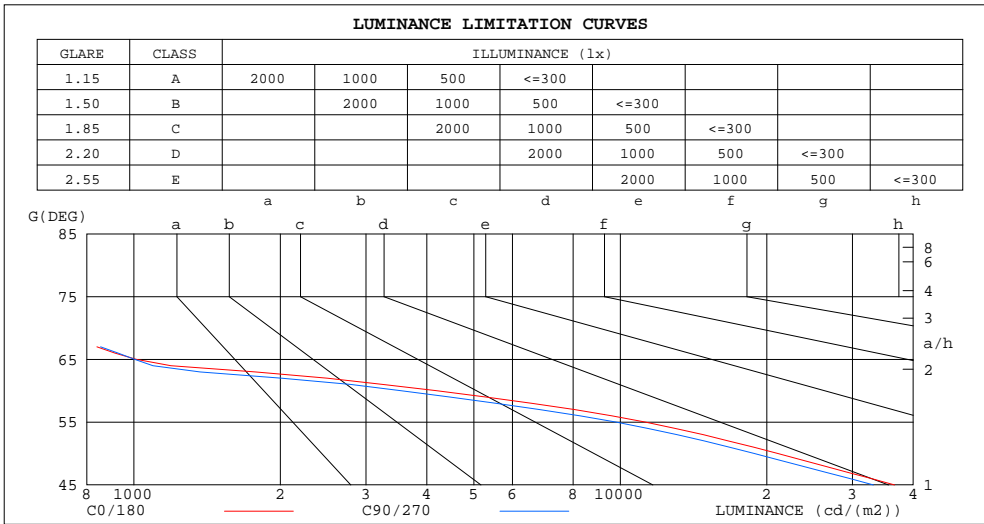
%lamp = 100.0%

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Test Speed: HIGH
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γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
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Remarks:

LUMINANCE LIMITATION CURVES

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SPEC.:4000K	DIM.: L450mm*W45mm*H73mm	
MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	765	765
80	535	551
75	538	561
70	662	696
65	1011	1003
60	4186	3535
55	11246	9789
50	21049	18823
45	36626	33146

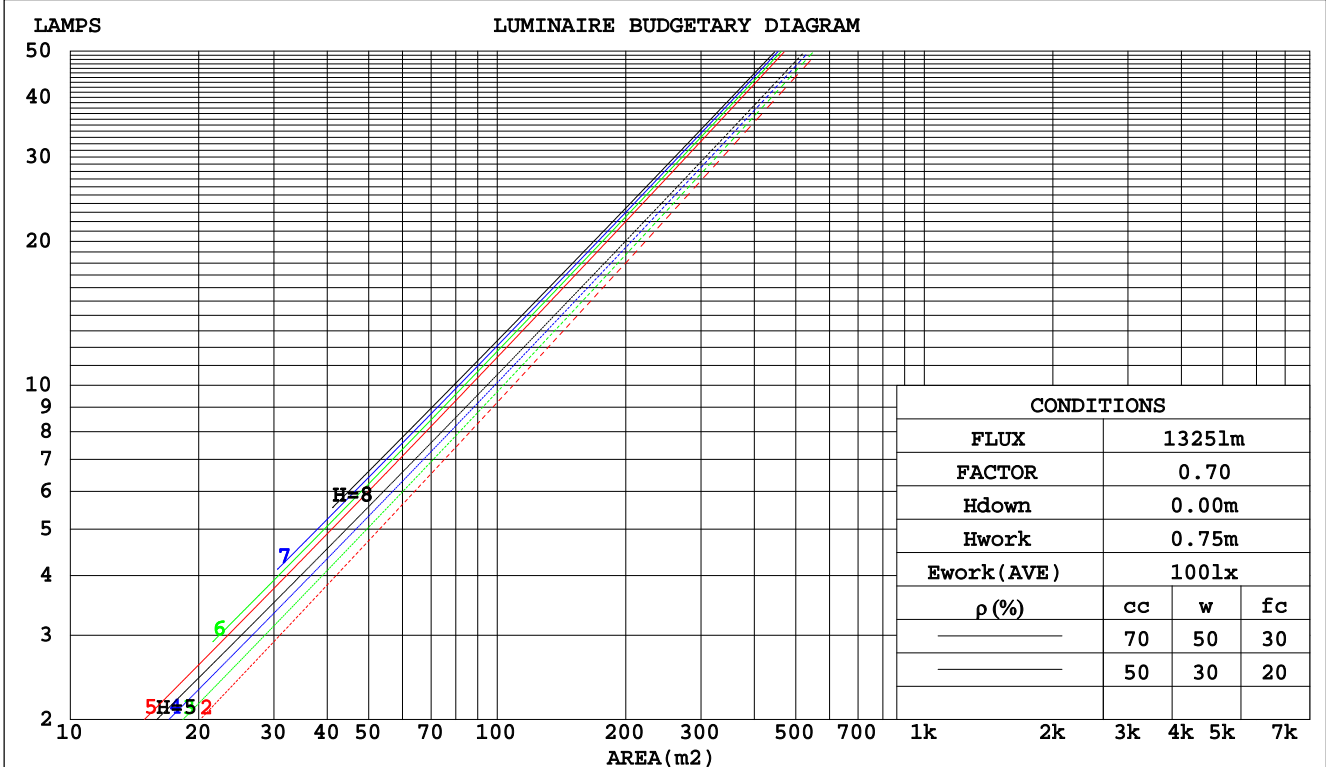
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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	1.13	1.12	1.10	1.11	1.10	1.08	1.07	1.06	1.05	1.04	1.03	1.02	1.00	.00	.99	.97
2.0	1.09	1.06	1.04	1.07	1.05	1.03	1.04	1.02	1.00	1.01	.00	.98	.99	.97	.96	.95
3.0	1.05	1.01	.99	1.03	1.01	.98	1.01	.99	.97	.99	.97	.95	.97	.95	.94	.93
4.0	1.01	.98	.95	1.00	.97	.94	.98	.96	.93	.97	.94	.92	.95	.93	.91	.90
5.0	.98	.95	.92	.97	.94	.91	.96	.93	.91	.94	.92	.90	.93	.91	.89	.88
6.0	.96	.92	.89	.95	.91	.89	.94	.91	.88	.92	.90	.88	.91	.89	.87	.86
7.0	.93	.89	.87	.93	.89	.87	.91	.88	.86	.90	.88	.86	.90	.87	.85	.84
8.0	.91	.87	.85	.90	.87	.85	.89	.86	.84	.89	.86	.84	.88	.85	.84	.83
9.0	.89	.85	.83	.88	.85	.83	.88	.85	.82	.87	.84	.82	.86	.84	.82	.81
10.0	.87	.83	.81	.87	.83	.81	.86	.83	.81	.85	.83	.81	.85	.82	.81	.80



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WEC AND CCEC

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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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.126	.072	.023	.119	.068	.022	.107	.061	.020	.096	.055	.018	.085	.049	.016	
2.0	.116	.064	.019	.110	.061	.019	.100	.056	.017	.091	.051	.016	.082	.047	.015	
3.0	.107	.057	.017	.103	.055	.017	.094	.051	.016	.087	.047	.015	.079	.044	.014	
4.0	.100	.052	.015	.096	.050	.015	.089	.047	.014	.083	.044	.013	.077	.042	.013	
5.0	.093	.048	.014	.090	.046	.014	.084	.044	.013	.079	.042	.012	.074	.039	.012	
6.0	.088	.044	.013	.085	.043	.012	.080	.041	.012	.075	.039	.012	.071	.037	.011	
7.0	.083	.041	.012	.081	.040	.011	.076	.039	.011	.072	.037	.011	.068	.036	.010	
8.0	.079	.039	.011	.077	.038	.011	.073	.036	.010	.069	.035	.010	.066	.034	.010	
9.0	.075	.036	.010	.073	.036	.010	.070	.035	.010	.067	.033	.010	.064	.032	.009	
10.0	.072	.034	.010	.070	.034	.009	.067	.033	.009	.064	.032	.009	.062	.031	.009	

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	.168	.158	.149	.143	.135	.128	.098	.093	.089	.056	.054	.052	.018	.017	.017	
2.0	.149	.133	.119	.127	.114	.103	.087	.079	.072	.050	.046	.042	.016	.015	.014	
3.0	.133	.113	.097	.114	.098	.084	.078	.068	.059	.045	.040	.035	.015	.013	.011	
4.0	.120	.098	.081	.103	.084	.070	.071	.059	.049	.041	.034	.029	.013	.011	.010	
5.0	.109	.085	.068	.094	.074	.059	.064	.051	.041	.037	.030	.025	.012	.010	.008	
6.0	.100	.075	.057	.086	.065	.050	.059	.045	.035	.034	.027	.021	.011	.009	.007	
7.0	.092	.067	.049	.079	.058	.043	.055	.040	.030	.032	.024	.018	.010	.008	.006	
8.0	.085	.060	.042	.073	.052	.037	.051	.036	.026	.029	.021	.016	.010	.007	.005	
9.0	.079	.054	.037	.068	.047	.032	.047	.033	.023	.027	.019	.014	.009	.006	.005	
10.0	.074	.049	.032	.064	.043	.028	.044	.030	.020	.026	.018	.012	.008	.006	.004	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Myles
 Test Date:2019-03-13

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:56%
 Test Distance:5.850m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:221.0V I:0.0694A P:14.81W PF:0.9683 Freq:49.90Hz Lamp Flux:1324.95x1 lm		
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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	13.6	14.2	13.8	14.4	14.5	13.2	13.8	13.4	14.0	14.1
3H	13.5	14.0	13.7	14.2	14.4	13.1	13.6	13.3	13.8	14.0
4H	13.4	13.9	13.7	14.1	14.3	13.0	13.5	13.3	13.7	14.0
6H	13.3	13.8	13.6	14.0	14.3	12.9	13.4	13.2	13.7	13.9
8H	13.3	13.8	13.6	14.0	14.3	12.9	13.4	13.2	13.6	13.9
12H	13.2	13.7	13.5	14.0	14.2	12.9	13.3	13.2	13.6	13.8
4H 2H	13.4	13.9	13.7	14.2	14.4	13.0	13.6	13.3	13.8	14.0
3H	13.3	13.7	13.6	14.0	14.2	12.9	13.3	13.2	13.6	13.9
4H	13.2	13.6	13.5	13.9	14.2	12.8	13.2	13.1	13.5	13.8
6H	13.1	13.4	13.4	13.8	14.1	12.7	13.1	13.0	13.4	13.7
8H	13.0	13.4	13.4	13.7	14.1	12.6	13.0	13.0	13.3	13.7
12H	13.0	13.3	13.4	13.6	14.0	12.6	12.9	13.0	13.3	13.6
8H 4H	13.0	13.4	13.4	13.7	14.1	12.6	13.0	13.0	13.3	13.7
6H	12.9	13.2	13.3	13.6	14.0	12.5	12.8	12.9	13.2	13.6
8H	12.8	13.1	13.3	13.5	13.9	12.4	12.7	12.9	13.1	13.6
12H	12.8	13.0	13.2	13.4	13.9	12.4	12.6	12.8	13.0	13.5
12H 4H	13.0	13.3	13.4	13.6	14.0	12.6	12.9	13.0	13.3	13.6
6H	12.8	13.1	13.3	13.5	13.9	12.4	12.7	12.9	13.1	13.6
8H	12.8	13.0	13.2	13.4	13.9	12.4	12.6	12.8	13.0	13.5
Variations with the observer position at spacings:										
S = 1.0H	+ 2.7 / - 9.8					+ 2.8 / -10.4				
1.5H	+ 4.3 / - 7.0					+ 4.4 / - 6.6				
2.0H	+ 5.7 / -14.7					+ 5.4 / -14.4				

CIE Pub.117, 1325 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.0)

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 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:56%
 Test Distance:5.850m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

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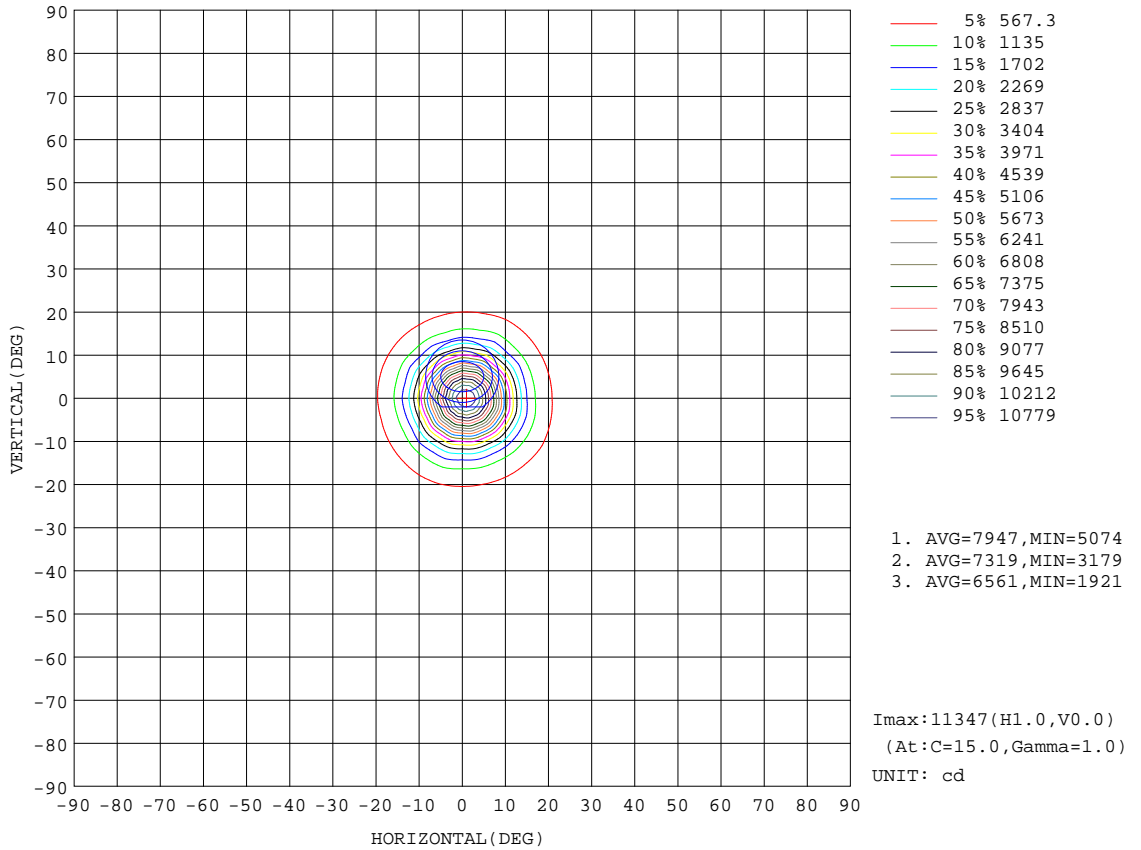
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	91	85	81	90	85	81	89	84	81	78
0.80	98	92	89	97	92	89	96	91	89	85
1.00	101	96	93	101	96	93	99	96	92	89
1.25	105	100	97	104	100	97	102	99	96	92
1.50	108	103	100	106	103	100	104	101	99	95
2.00	110	106	103	108	105	102	106	103	101	96
2.50	111	108	105	110	107	104	107	104	102	97
3.00	113	110	107	111	108	106	108	105	104	98
4.00	114	112	110	112	110	109	109	107	106	99
5.00	116	114	112	114	112	110	110	108	107	100
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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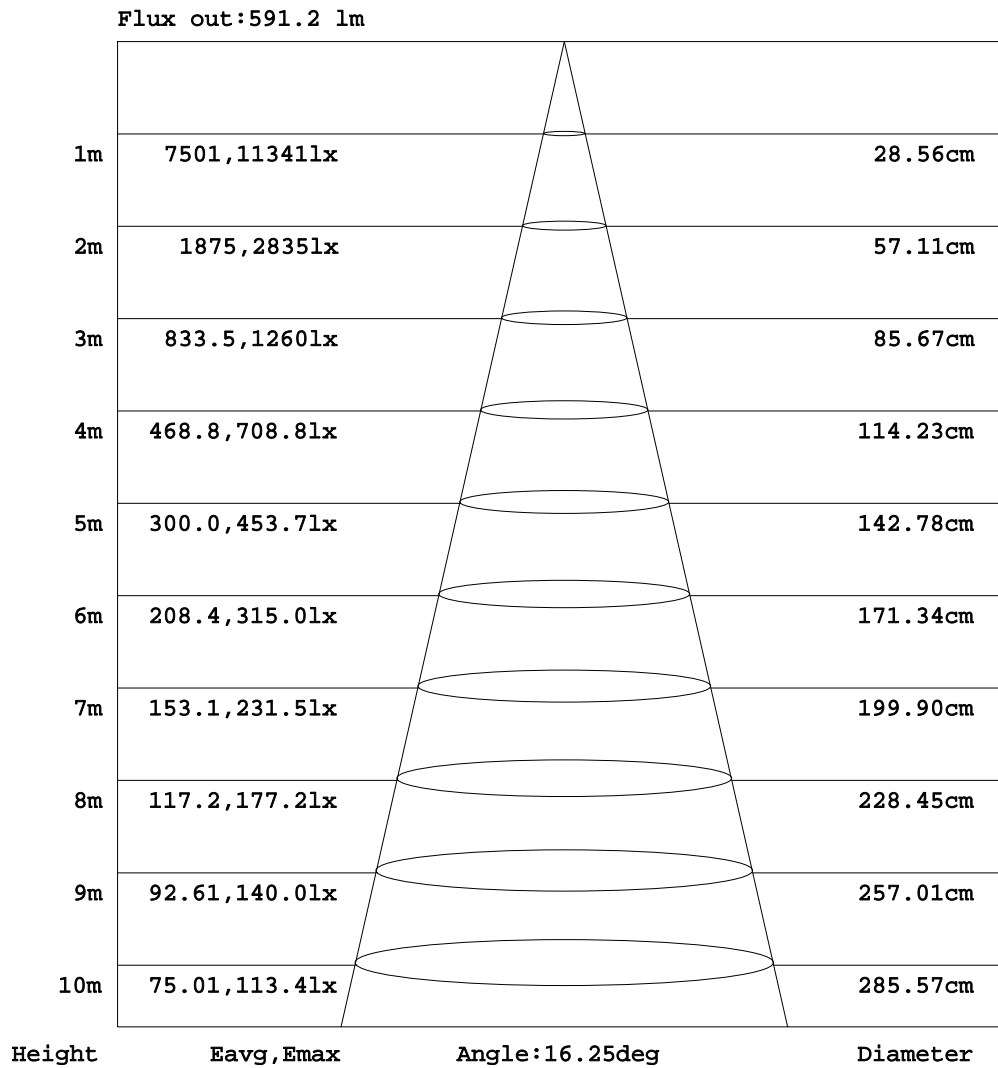


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AAI Figure

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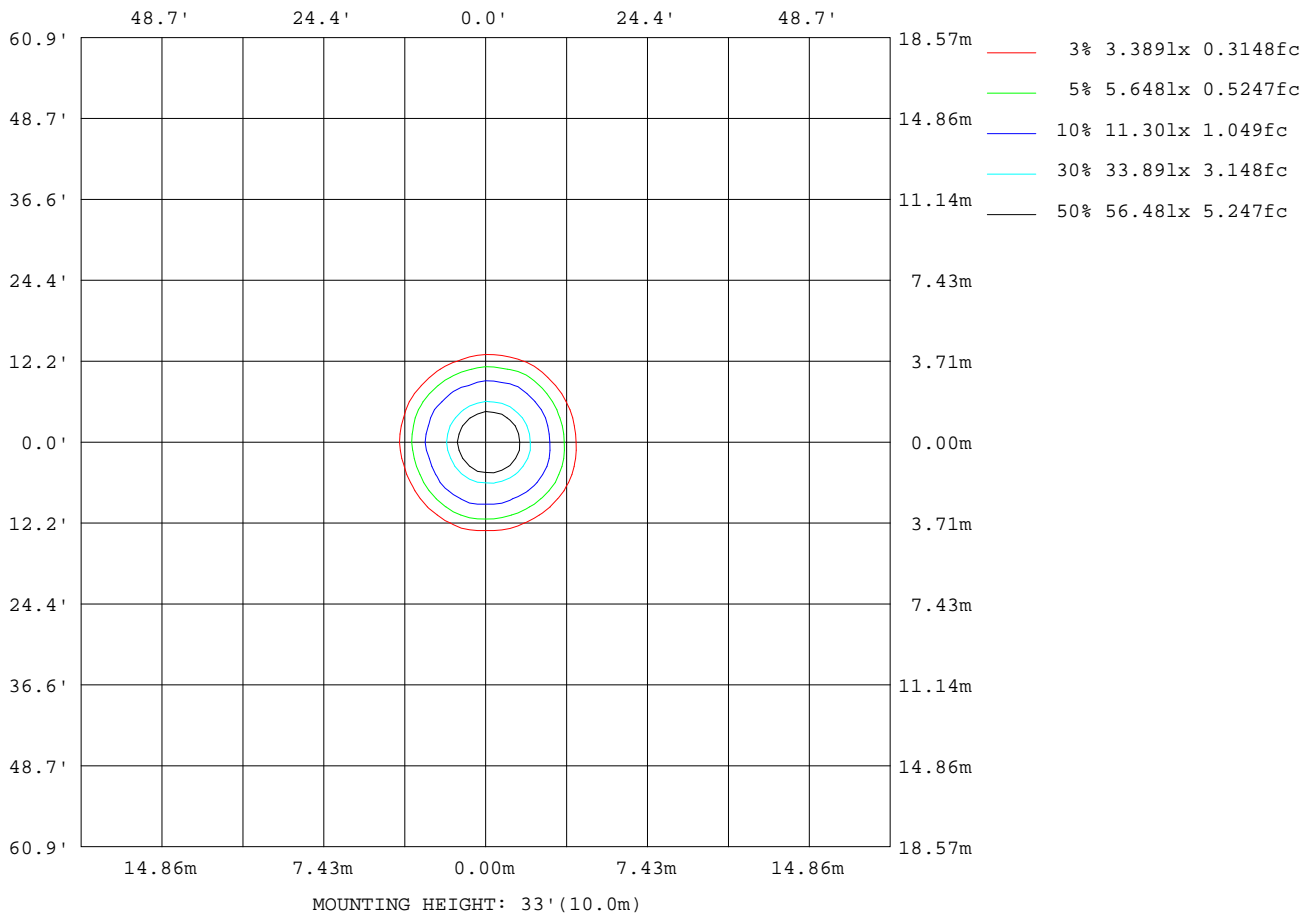
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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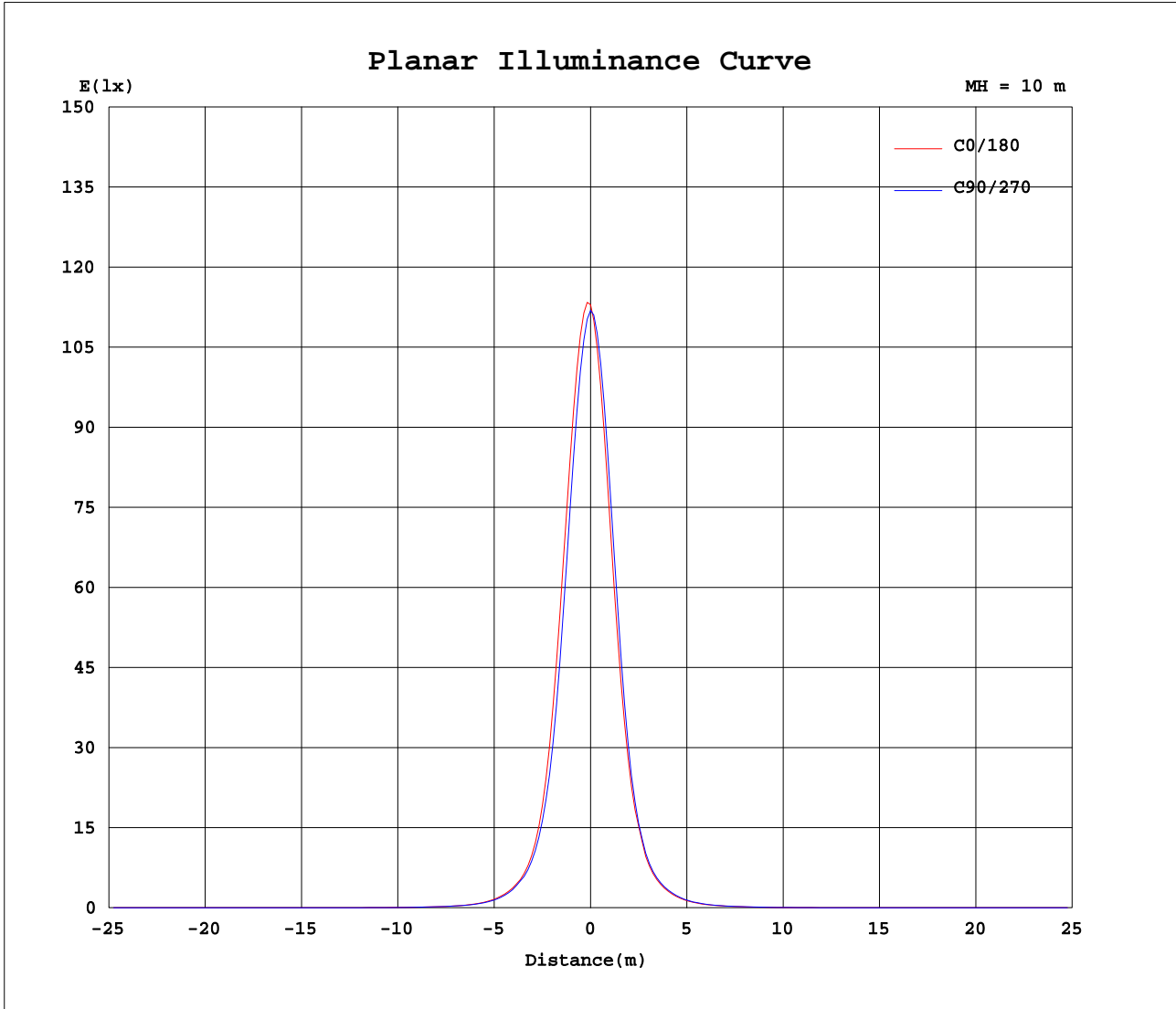
AvgL	cd/m2
L_0~180(65)av	953
L_0~180(75)av	461
L_0~180(85)av	611
L_90~270(65)av	941
L_90~270(75)av	454
L_90~270(85)av	600
L_45(65)av	942
L_45(75)av	448
L_45(85)av	583

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Myles
Test Date:2019-03-13

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:56%
Test Distance:5.850m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Myles
 Test Date: 2019-03-13

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity: 56%
 Test Distance: 5.850m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:221.0V I:0.0694A P:14.81W PF:0.9683 Freq:49.90Hz Lamp Flux:1324.95xl lm		
NAME: FL450-SL450-3S-15W-840-15	TYPE:Spotlight	SERIAL No.:
SPEC.:4000K	DIM.: L450mm*W45mm*H73mm	
MFR.: NEKO LIGHTING AG		

Table--1

UNIT: x10cd

C(DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	1121	1121	1121	1121	1121	1121	1121	1121	1121	1121	1121	1121	1121	1121	1121	1121	1121	1121	1121
5	936	952	931	930	899	892	856	857	823	824	794	794	802	789	808	804	831	835	872
10	478	498	478	473	437	428	398	405	378	378	352	352	360	351	364	355	372	369	402
15	168	183	179	174	158	159	147	158	145	147	128	127	137	131	142	130	139	130	145
20	63.5	68.7	69.9	67.5	64.3	61.6	60.9	61.9	60.0	55.8	53.6	51.3	52.7	54.1	54.4	54.4	53.4	54.6	56.6
25	28.9	30.4	30.2	30.0	28.2	27.8	26.4	27.1	25.5	24.9	23.4	23.2	23.7	23.5	24.2	23.7	24.3	24.4	26.0
30	13.1	13.8	13.6	13.7	12.9	13.1	12.3	12.8	11.9	11.6	11.1	11.0	11.3	11.2	11.5	11.3	11.5	11.6	12.5
35	6.81	7.01	7.10	7.02	6.82	6.65	6.55	6.67	6.52	6.32	6.09	5.95	6.14	6.24	6.34	6.29	6.27	6.27	6.47
40	3.88	4.07	4.04	4.03	3.85	3.83	3.73	3.83	3.66	3.66	3.49	3.50	3.62	3.60	3.66	3.64	3.71	3.70	3.84
45	1.94	1.95	1.87	1.90	1.86	1.86	1.77	1.75	1.65	1.69	1.67	1.68	1.71	1.66	1.68	1.70	1.81	1.83	1.89
50	1.01	1.00	0.95	0.97	0.97	0.97	0.91	0.88	0.81	0.86	0.87	0.89	0.90	0.86	0.86	0.88	0.95	0.96	1.00
55	0.48	0.47	0.44	0.45	0.45	0.45	0.42	0.41	0.37	0.39	0.40	0.40	0.41	0.39	0.39	0.41	0.44	0.45	0.47
60	0.16	0.15	0.14	0.14	0.14	0.15	0.13	0.13	0.11	0.12	0.12	0.12	0.13	0.11	0.11	0.12	0.13	0.14	0.15
65	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
70	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.01	0.02	0.01	0.02	0.01
75	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
80	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.01	0.00	0.01	0.00	0.01	0.00
85	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Myles
Test Date:2019-03-13

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:56%
Test Distance:5.850m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:221.0V I:0.0694A P:14.81W PF:0.9683 Freq:49.90Hz Lamp Flux:1324.95x1 lm		
NAME: FL450-SL450-3S-15W-840-15	TYPE:Spotlight	SERIAL No.:
SPEC.:4000K	DIM.: L450mm*W45mm*H73mm	
MFR.: NEKO LIGHTING AG		

Table--2

UNIT: x10cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	1121	1121	1121	1121	1121														
5	870	908	907	944	942														
10	404	446	446	482	481														
15	145	171	162	179	168														
20	58.9	64.9	64.7	64.3	63.6														
25	26.4	28.4	27.8	29.0	28.9														
30	12.2	13.4	12.7	13.4	13.2														
35	6.59	6.87	6.77	6.74	6.78														
40	3.85	4.00	3.90	3.92	3.85														
45	1.84	1.88	1.87	1.97	1.95														
50	0.94	0.94	0.96	1.03	1.02														
55	0.45	0.45	0.46	0.50	0.49														
60	0.14	0.15	0.15	0.16	0.16														
65	0.03	0.03	0.03	0.03	0.03														
70	0.02	0.01	0.02	0.01	0.02														
75	0.01	0.01	0.01	0.01	0.01														
80	0.01	0.00	0.01	0.00	0.01														
85	0.00	0.00	0.00	0.00	0.00														
90	0.00	0.00	0.00	0.00	0.00														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Myles
 Test Date:2019-03-13

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:56%
 Test Distance:5.850m [K=1.0000]
 Remarks: