

LED Downlight FUSION Series FF5-11W-927-40D



Light Output Ratio:	100.0%	
Luminaire Power:	10.12 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.60	fine grid method.

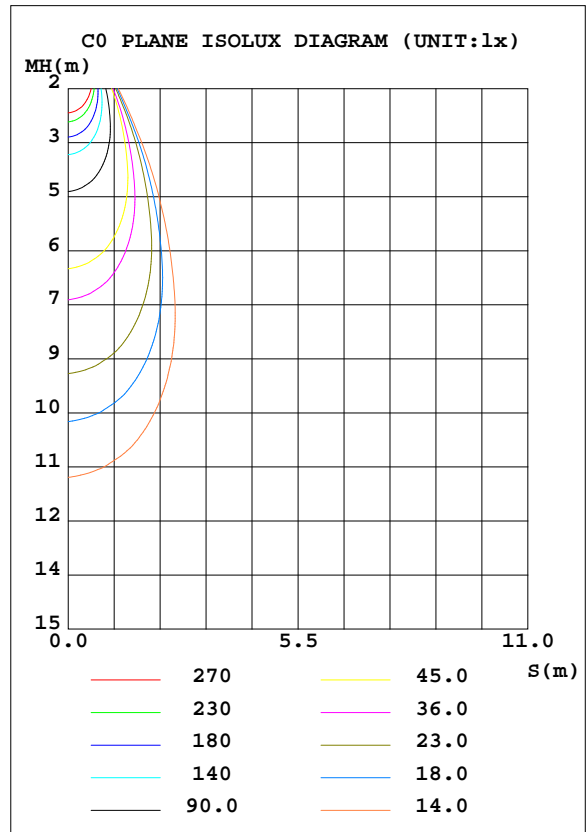
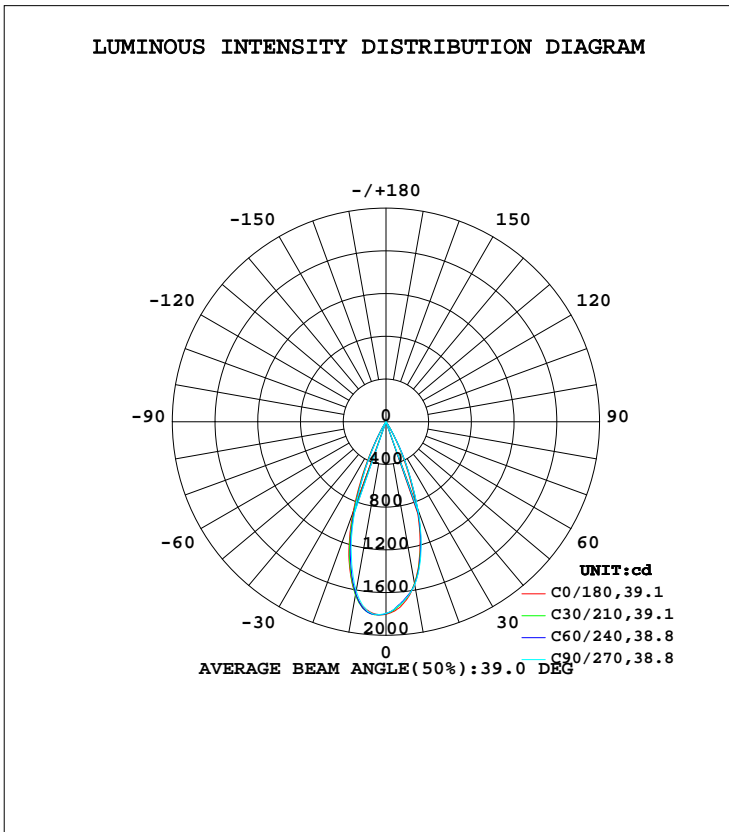
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2021-01-29

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:14.46V I:0.7000A P:10.12W PF:1.000 Freq:0Hz Lamp Flux:718.417x1 lm		
NAME: FF5-11W-927-40D	TYPE:Downlight	SERIAL No.:
SPEC.:2700K	DIM.: L153mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	OSRAM-2700K	Imax(cd)	1811	S/MH(C0/180)	0.61
NOMINAL POWER(W)	11	LOR(%)	100.0	S/MH(C90/270)	0.59
RATED VOLTAGE(V)	15	TOTAL FLUX(lm)	718.42	η UP, DN(C0-180)	0.0,51.1
NOMINAL FLUX(lm)	718.417	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,48.9
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	14.6	η down(%)	100.0	CIBSE SHR MAX	0.60



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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	1538	1549	1550	1601	1642	1634	1605	1569	0- 10	162.0	162.0	22.5,22.5
20	827.0	877.2	874.8	903.2	902.3	834.2	819.2	793.7	10- 20	344.3	506.3	70.5,70.5
30	126.4	154.7	147.7	134.9	116.0	88.13	85.49	91.55	20- 30	194.8	701.1	97.6,97.6
40	1.927	3.131	2.534	2.148	1.341	1.045	1.072	1.156	30- 40	16.48	717.6	99.9,99.9
50	0.3873	0.4022	0.4292	0.3132	0.2293	0.2563	0.2453	0.2930	40- 50	0.4947	718.1	100,100
60	0.1568	0.1305	0.1727	0.0888	0.0835	0.1306	0.0835	0.1412	50- 60	0.1794	718.3	100,100
70	0.0733	0.0521	0.0941	0.0261	0.0207	0.0627	0.0260	0.0732	60- 70	0.0845	718.4	100,100
80	0.0366	0.0105	0.0470	0.0157	0.0052	0.0418	0.0052	0.0366	70- 80	0.0386	718.4	100,100
90	0.0157	0.0105	0.0105	0.0157	0.0052	0.0157	0.0052	0.0157	80- 90	0.0231	718.4	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): 717.92 lm

%lum = 99.9%

%lamp = 99.9%

Conical surface Flux(120deg): 718.27 lm

%lum = 100.0%

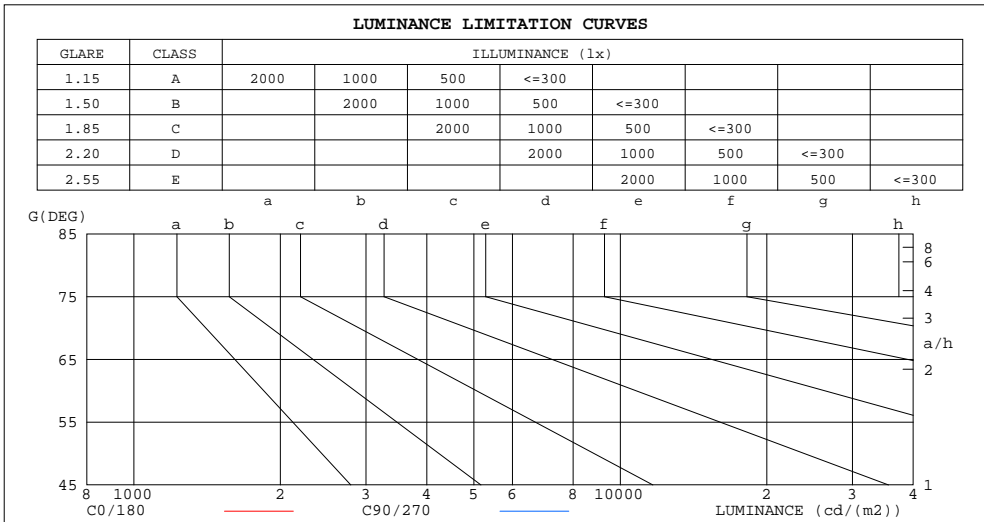
%lamp = 100.0%

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LUMINANCE LIMITATION CURVES

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SPEC.:2700K	DIM.: L153mm*W45mm*H60mm	
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LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	35	70
80	31	39
75	32	35
70	31	40
65	38	41
60	46	50
55	60	65
50	88	97
45	131	152

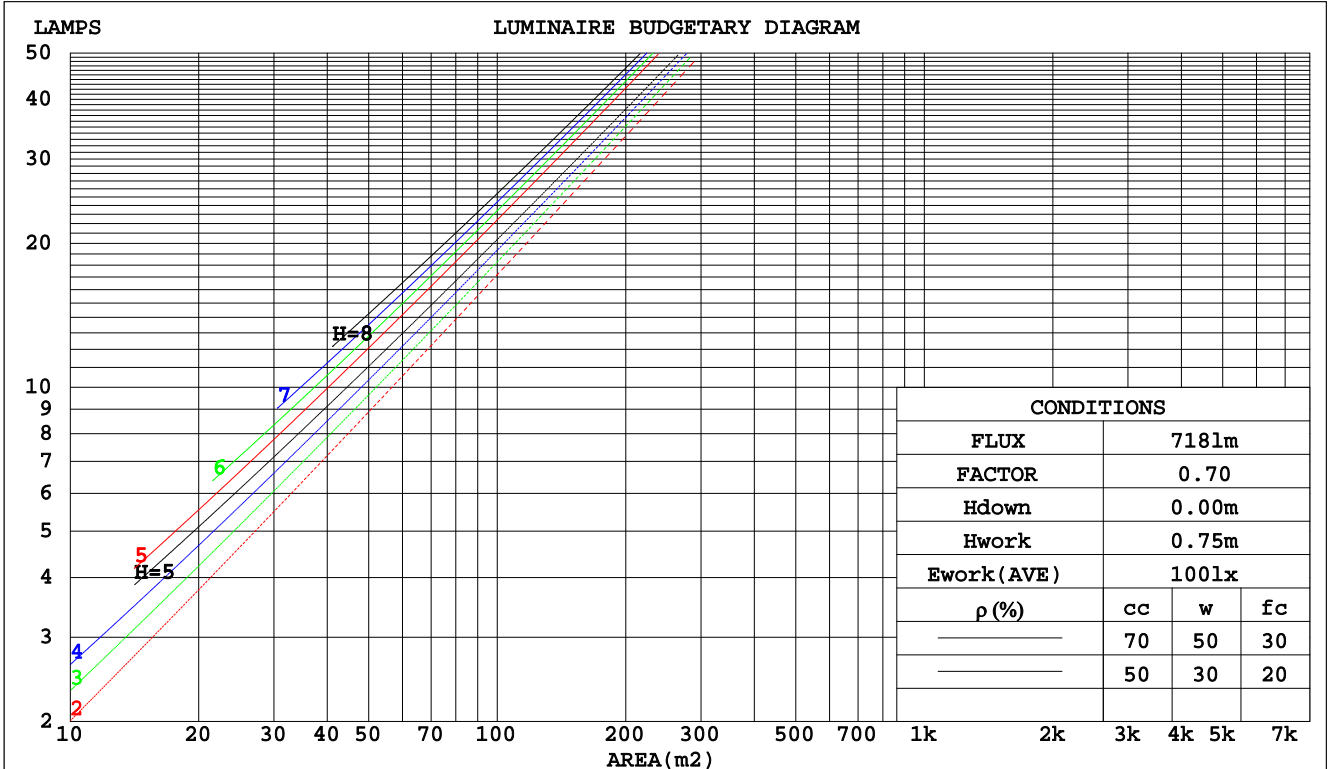
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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	1.00
1.0	1.12	1.10	1.09	1.10	1.09	1.07	1.06	1.05	1.04	1.03	1.02	1.01	.99	.98	.98	.96
2.0	1.07	1.04	1.01	1.05	1.02	.90	1.02	.90	.98	.99	.97	.96	.96	.95	.94	.92
3.0	1.02	.98	.95	1.00	.97	.94	.98	.95	.93	.96	.93	.91	.93	.91	.90	.88
4.0	.97	.93	.90	.96	.92	.89	.94	.91	.88	.92	.89	.87	.91	.88	.86	.85
5.0	.93	.89	.85	.92	.88	.85	.91	.87	.84	.89	.86	.84	.88	.85	.83	.82
6.0	.89	.85	.82	.89	.84	.81	.87	.84	.81	.86	.83	.80	.85	.82	.80	.79
7.0	.86	.81	.78	.85	.81	.78	.84	.80	.78	.83	.80	.77	.82	.79	.77	.76
8.0	.83	.78	.75	.82	.78	.75	.81	.77	.75	.80	.77	.74	.79	.76	.74	.73
9.0	.80	.75	.72	.79	.75	.72	.78	.75	.72	.78	.74	.72	.77	.74	.71	.70
10.0	.77	.72	.70	.77	.72	.69	.76	.72	.69	.75	.72	.69	.74	.71	.69	.68



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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	.145	.082	.026	.138	.079	.025	.126	.072	.023	.114	.066	.021	.104	.060	.019	
2.0	.135	.074	.023	.130	.071	.022	.119	.066	.021	.110	.062	.019	.101	.057	.018	
3.0	.127	.067	.020	.122	.065	.020	.114	.062	.019	.106	.058	.018	.098	.054	.017	
4.0	.120	.062	.018	.116	.061	.018	.108	.057	.017	.102	.055	.016	.095	.052	.016	
5.0	.113	.058	.017	.110	.056	.016	.104	.054	.016	.098	.052	.015	.092	.049	.015	
6.0	.108	.054	.015	.105	.053	.015	.100	.051	.015	.094	.049	.014	.090	.047	.014	
7.0	.103	.051	.014	.100	.050	.014	.096	.048	.014	.091	.047	.014	.087	.045	.013	
8.0	.099	.048	.014	.096	.047	.013	.092	.046	.013	.088	.045	.013	.085	.043	.013	
9.0	.095	.046	.013	.093	.045	.013	.089	.044	.012	.085	.043	.012	.082	.042	.012	
10.0	.091	.044	.012	.089	.043	.012	.086	.042	.012	.083	.041	.012	.080	.040	.012	

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	.169	.158	.147	.145	.135	.127	.099	.093	.088	.057	.054	.051	.018	.017	.017	
2.0	.151	.133	.117	.130	.114	.101	.089	.079	.071	.051	.046	.041	.016	.015	.013	
3.0	.137	.113	.095	.117	.098	.082	.081	.068	.058	.047	.040	.034	.015	.013	.011	
4.0	.125	.098	.078	.107	.085	.067	.074	.059	.047	.043	.035	.028	.014	.011	.009	
5.0	.115	.086	.065	.099	.074	.056	.068	.052	.040	.039	.030	.024	.013	.010	.008	
6.0	.106	.076	.054	.091	.066	.047	.063	.046	.034	.037	.027	.020	.012	.009	.007	
7.0	.099	.068	.046	.085	.059	.040	.059	.041	.029	.034	.024	.017	.011	.008	.006	
8.0	.093	.061	.040	.080	.053	.035	.055	.037	.025	.032	.022	.015	.010	.007	.005	
9.0	.088	.056	.035	.076	.049	.030	.052	.034	.021	.030	.020	.013	.010	.007	.004	
10.0	.083	.051	.030	.072	.045	.026	.050	.031	.019	.029	.019	.011	.009	.006	.004	

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UGR(Unified Glare Rating) Table

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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	2.7	3.4	2.9	3.5	3.7	4.0	4.8	4.2	4.9	5.1
3H	2.5	3.2	2.8	3.4	3.6	3.9	4.5	4.1	4.7	4.9
4H	2.4	3.1	2.7	3.3	3.5	3.8	4.4	4.1	4.6	4.9
6H	2.4	3.0	2.6	3.2	3.4	3.7	4.3	4.0	4.5	4.8
8H	2.3	2.9	2.6	3.1	3.4	3.7	4.2	4.0	4.5	4.7
12H	2.3	2.8	2.6	3.1	3.3	3.6	4.2	3.9	4.4	4.7
4H 2H	2.4	3.1	2.7	3.3	3.5	3.8	4.4	4.1	4.6	4.9
3H	2.3	2.8	2.6	3.1	3.3	3.6	4.2	3.9	4.4	4.7
4H	2.2	2.7	2.5	3.0	3.3	3.5	4.0	3.9	4.3	4.6
6H	2.1	2.5	2.4	2.8	3.2	3.4	3.9	3.8	4.2	4.5
8H	2.0	2.4	2.4	2.8	3.1	3.4	3.8	3.8	4.1	4.5
12H	2.0	2.3	2.4	2.7	3.1	3.3	3.7	3.7	4.1	4.5
8H 4H	2.0	2.4	2.4	2.8	3.1	3.4	3.8	3.8	4.1	4.5
6H	1.9	2.3	2.3	2.6	3.1	3.3	3.6	3.7	4.0	4.4
8H	1.9	2.2	2.3	2.6	3.0	3.2	3.5	3.7	3.9	4.4
12H	1.8	2.1	2.3	2.5	3.0	3.2	3.4	3.6	3.9	4.3
12H 4H	2.0	2.3	2.4	2.7	3.1	3.3	3.7	3.7	4.1	4.5
6H	1.9	2.2	2.3	2.6	3.0	3.2	3.5	3.7	3.9	4.4
8H	1.8	2.1	2.3	2.5	3.0	3.2	3.4	3.6	3.9	4.3
Variations with the observer position at spacings:										
S = 1.0H	+ 4.3 / - 9.1					+ 4.4 / - 9.2				
1.5H	+ 6.9 / - 7.7					+ 7.0 / - 7.8				
2.0H	+ 3.2 / - 2.6					+ 3.5 / - 2.3				

CIE Pub.117, 718.4 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.1)

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UTILIZATION FACTORS TABLE

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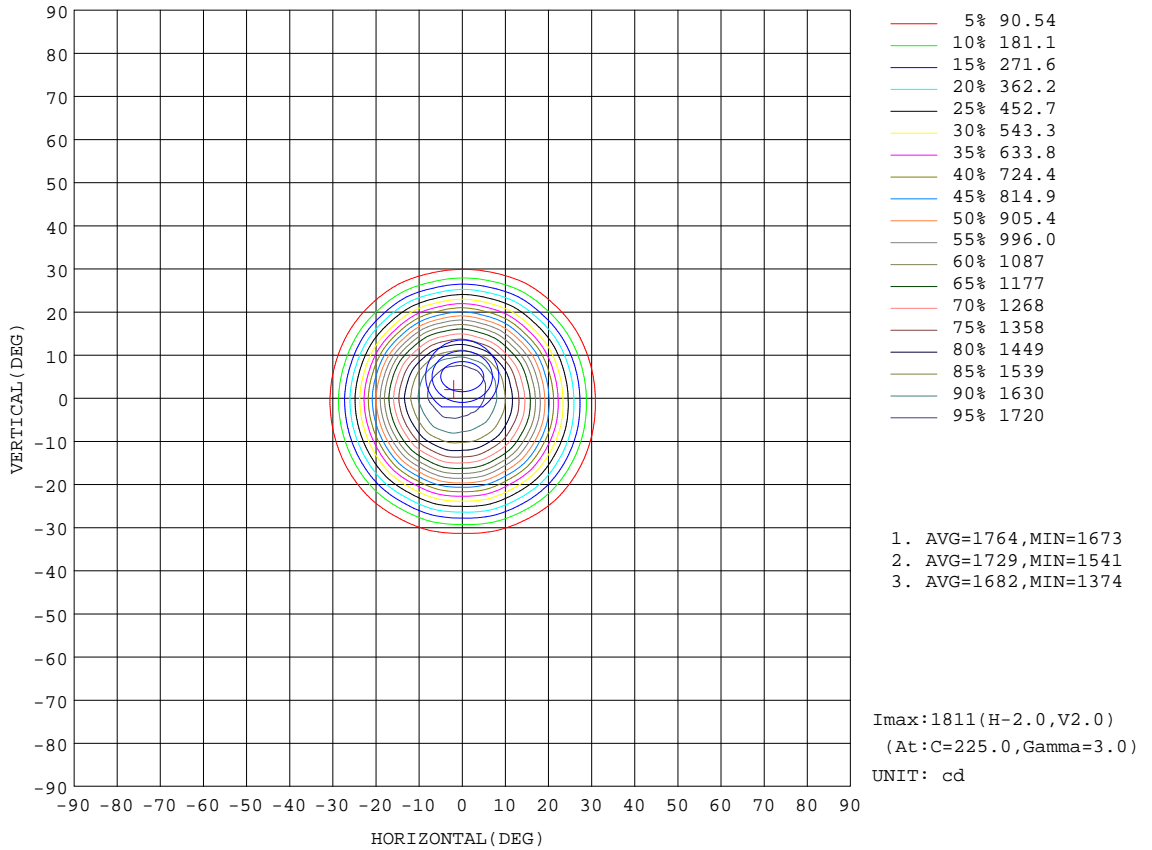
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	92	86	83	91	86	82	90	85	82	79
0.80	98	93	90	98	93	90	97	92	90	86
1.00	102	97	94	101	97	94	100	96	93	90
1.25	106	101	98	105	100	98	103	99	97	93
1.50	108	104	101	107	103	100	105	102	99	95
2.00	110	106	103	109	105	103	106	103	101	96
2.50	111	108	105	110	107	105	107	104	103	97
3.00	113	110	107	111	108	106	108	106	104	98
4.00	115	112	110	113	111	109	109	107	106	99
5.00	116	114	112	114	112	111	110	109	108	100
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

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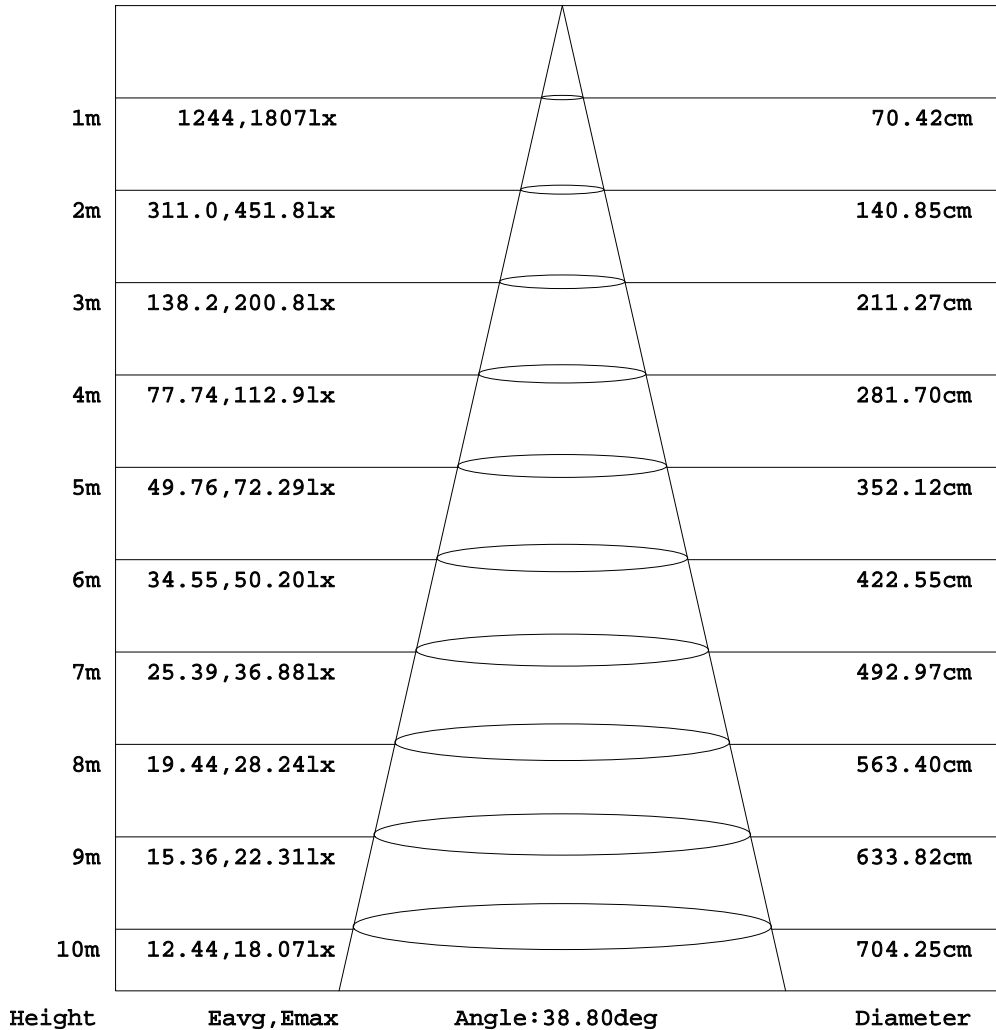
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AAI Figure

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Flux out:490.0 lm



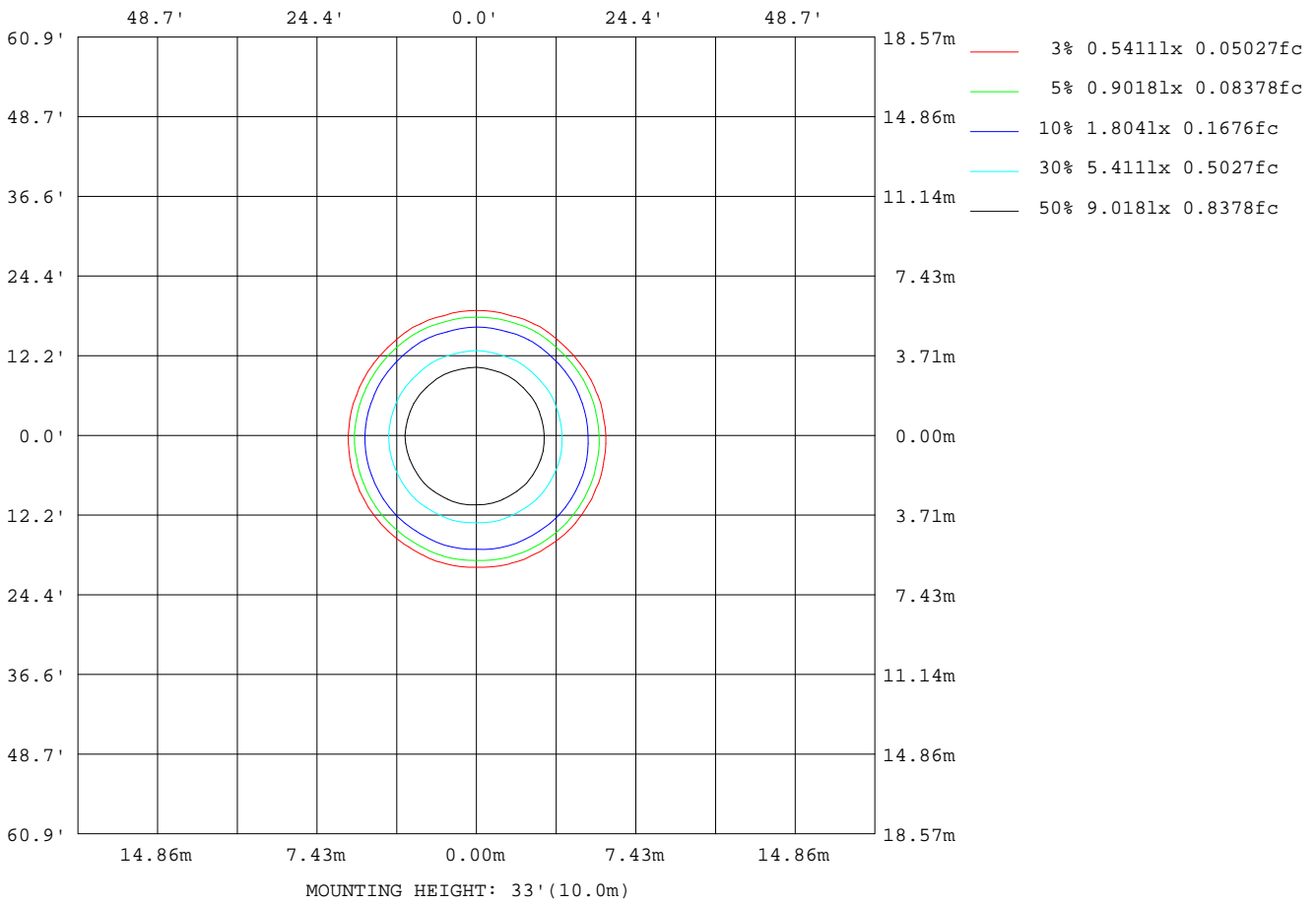
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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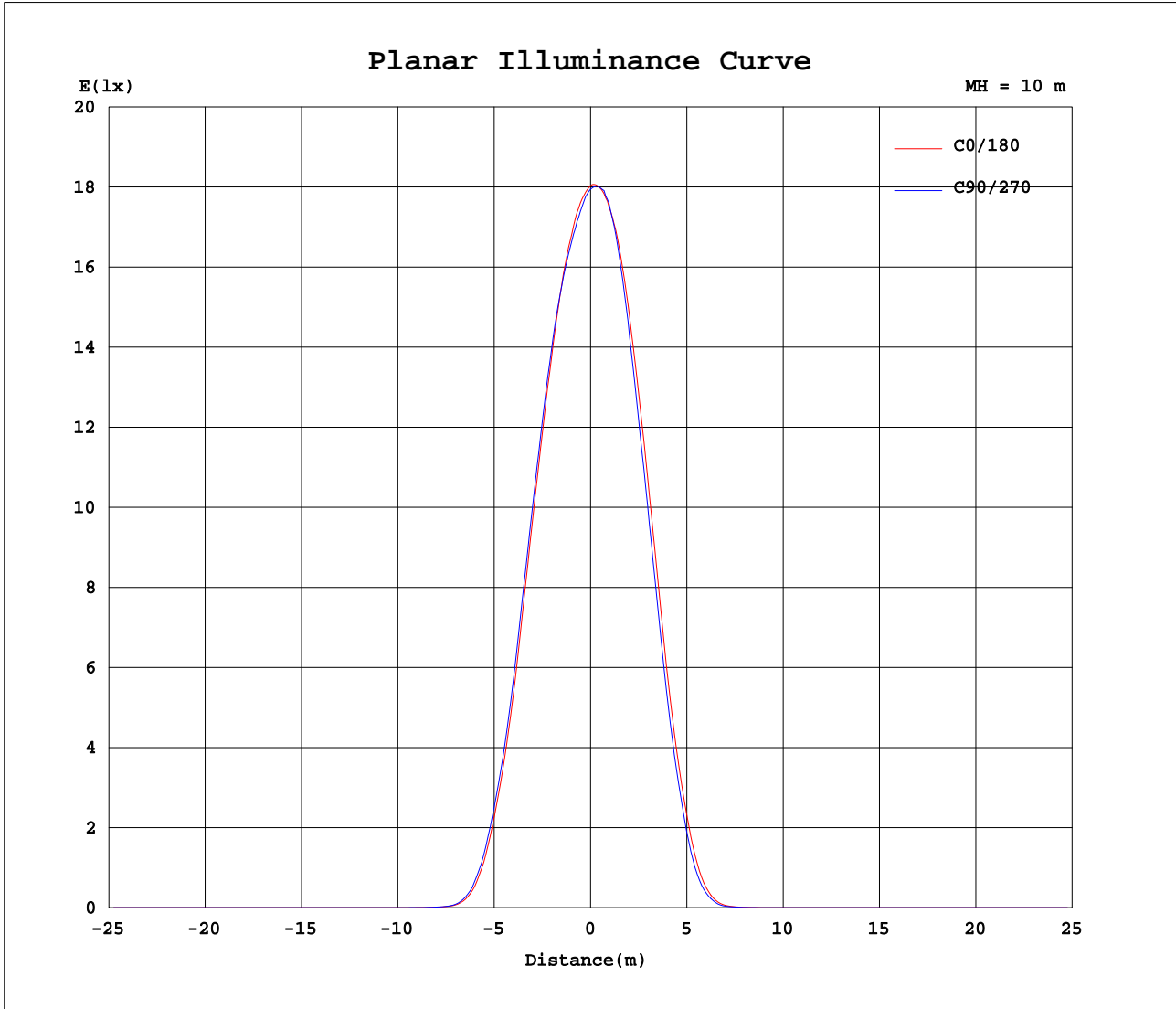
AvgL	cd/m2
L_0~180(65)av	27
L_0~180(75)av	18
L_0~180(85)av	22
L_90~270(65)av	31
L_90~270(75)av	19
L_90~270(85)av	39
L_45(65)av	30
L_45(75)av	18
L_45(85)av	37

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2021-01-29

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: 2021-01-29

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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:14.46V I:0.7000A P:10.12W PF:1.000 Freq:0Hz Lamp Flux:718.417x1 lm		
NAME: FF5-11W-927-40D	TYPE:Downlight	SERIAL No.:
SPEC.:2700K	DIM.: L153mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	1804	1804	1799	1799	1797	1797	1795	1795	1793	1793	1790	1788	1804	1804	1799	1799	1797	1797	1795
5	1723	1714	1706	1704	1696	1700	1703	1716	1726	1739	1745	1758	1785	1792	1796	1798	1800	1790	1789
10	1538	1542	1539	1549	1546	1551	1550	1568	1579	1601	1605	1617	1642	1639	1649	1634	1633	1608	1605
15	1232	1247	1246	1259	1255	1269	1266	1290	1289	1309	1308	1321	1339	1322	1321	1295	1292	1263	1261
20	827	852	858	877	864	883	875	891	879	903	892	895	902	877	869	834	836	810	819
25	420	445	451	468	463	475	458	470	452	463	448	444	442	415	407	382	389	368	380
30	126	134	146	155	157	158	148	151	138	135	130	120	116	106	95.4	88.1	91.0	82.8	85.5
35	13.7	15.9	17.2	19.0	17.4	18.4	16.2	17.1	15.0	15.1	13.0	11.8	11.3	9.64	8.79	7.80	7.95	7.30	7.65
40	1.93	2.34	2.61	3.13	2.84	2.93	2.53	2.67	2.15	2.15	1.76	1.58	1.34	1.19	1.14	1.04	1.09	1.04	1.07
45	0.64	0.64	0.72	0.71	0.76	0.73	0.74	0.68	0.68	0.58	0.59	0.51	0.37	0.41	0.36	0.41	0.39	0.44	0.40
50	0.39	0.36	0.43	0.40	0.46	0.40	0.43	0.37	0.38	0.31	0.34	0.27	0.23	0.27	0.21	0.26	0.21	0.28	0.25
55	0.24	0.19	0.26	0.22	0.28	0.22	0.26	0.20	0.22	0.16	0.20	0.14	0.15	0.18	0.14	0.17	0.14	0.19	0.15
60	0.16	0.10	0.17	0.13	0.19	0.14	0.17	0.11	0.15	0.09	0.14	0.08	0.08	0.13	0.08	0.13	0.08	0.14	0.08
65	0.11	0.08	0.12	0.07	0.13	0.08	0.12	0.07	0.10	0.07	0.10	0.06	0.05	0.09	0.05	0.10	0.06	0.10	0.06
70	0.07	0.03	0.08	0.05	0.09	0.06	0.09	0.04	0.08	0.03	0.07	0.02	0.02	0.06	0.02	0.06	0.02	0.07	0.03
75	0.06	0.02	0.06	0.02	0.07	0.02	0.06	0.02	0.06	0.02	0.06	0.02	0.01	0.04	0.02	0.05	0.02	0.05	0.01
80	0.04	0.02	0.04	0.01	0.05	0.01	0.05	0.02	0.05	0.02	0.04	0.02	0.01	0.04	0.02	0.04	0.02	0.04	0.01
85	0.02	0.02	0.03	0.01	0.04	0.01	0.04	0.02	0.04	0.02	0.03	0.02	0.01	0.02	0.02	0.03	0.02	0.03	0.01
90	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.01	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.01

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Jason
 Test Date: 2021-01-29

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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:14.46V I:0.7000A P:10.12W PF:1.000 Freq:0Hz Lamp Flux:718.417x1 lm		
NAME: FF5-11W-927-40D	TYPE:Downlight	SERIAL No.:
SPEC.:2700K	DIM.: L153mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345															
0	1795	1793	1793	1790	1788															
5	1781	1778	1762	1751	1730															
10	1586	1590	1569	1561	1536															
15	1233	1240	1221	1229	1217															
20	796	809	794	815	811															
25	373	388	379	400	406															
30	85.7	95.7	91.6	103	115															
35	7.58	8.85	9.02	10.7	12.1															
40	1.07	1.15	1.16	1.36	1.55															
45	0.45	0.40	0.46	0.43	0.49															
50	0.28	0.24	0.29	0.27	0.31															
55	0.19	0.15	0.20	0.16	0.22															
60	0.14	0.09	0.14	0.10	0.15															
65	0.10	0.07	0.10	0.08	0.10															
70	0.08	0.03	0.07	0.03	0.07															
75	0.05	0.01	0.05	0.02	0.05															
80	0.04	0.01	0.04	0.02	0.04															
85	0.03	0.01	0.03	0.02	0.03															
90	0.02	0.01	0.02	0.02	0.02															

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Jason
 Test Date:2021-01-29

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: