

LED Downlight FUSION Series FF2-4W-940-24D



Light Output Ratio:	100.0%	
Luminaire Power:	5.381 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	1.00	fine grid method.

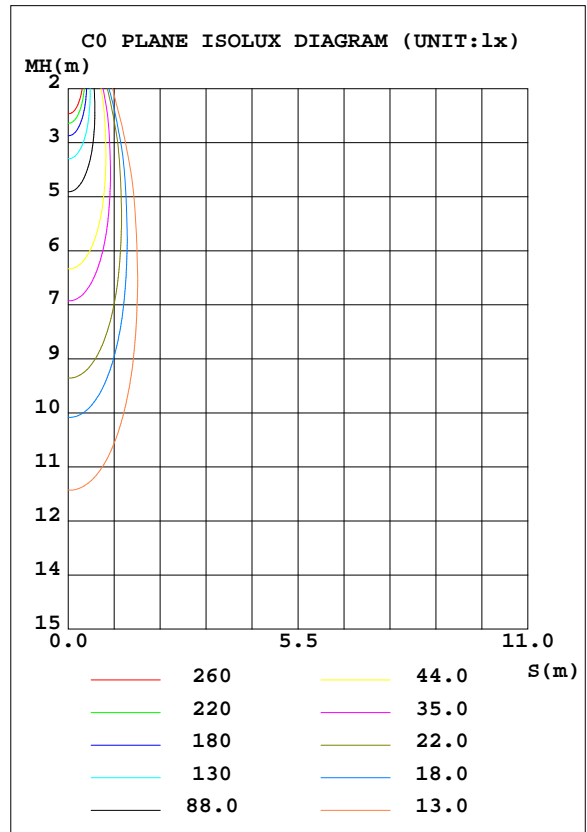
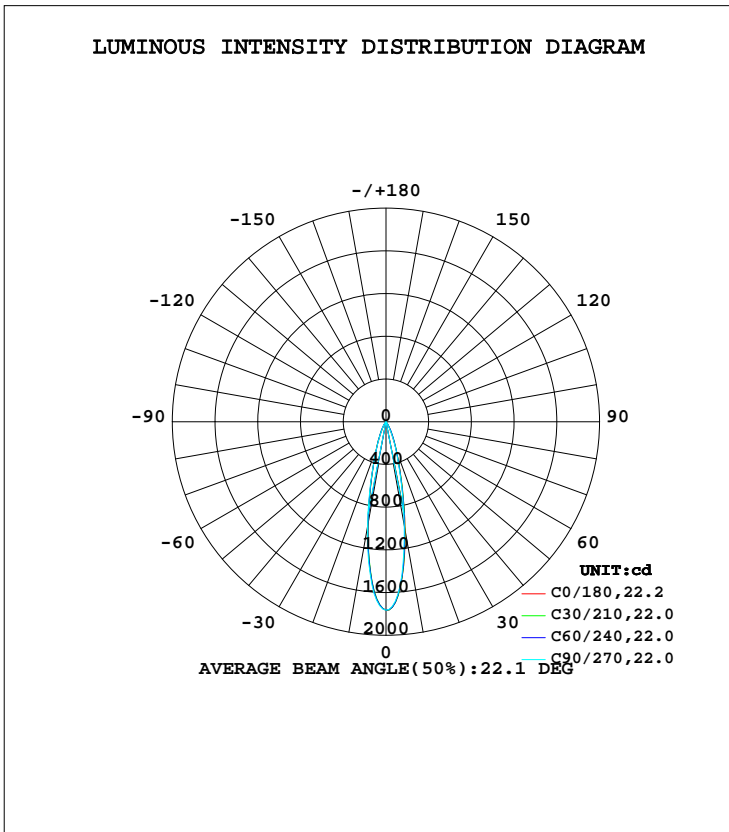
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Myles
Test Date: 2018-09-06

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:220.4V I:0.0312A P:5.381W PF:0.7753 Freq:49.90Hz Lamp Flux:363.63x1 lm		
NAME: FF2-4W-940-24D	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: L70mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 67.58 lm/W
MODEL	OSRAM-4000K	I _{max} (cd)	1765	S/MH(C0/180)		0.37
NOMINAL POWER(W)	6	LOR(%)	100.0	S/MH(C90/270)		0.38
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	363.63	η UP, DN(C0-180)		0.0,50.3
NOMINAL FLUX(lm)	363.63	CIE CLASS	DIRECT	η UP, DN(C180-360)		0.0,49.7
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	1032	1030	989.6	981.8	978.7	953.3	1000	1032	0- 10	128.4	128.4	35.3,35.3
20	276.9	289.0	264.1	273.7	255.9	252.1	252.7	277.9	10- 20	148.9	277.3	76.3,76.3
30	56.91	89.37	52.71	84.62	53.83	79.77	60.02	87.18	20- 30	64.51	341.8	94,94
40	3.621	15.24	4.237	14.34	3.889	15.34	4.340	17.84	30- 40	19.74	361.6	99.4,99.4
50	0.1795	0.7904	0.1336	0.6555	0.1637	0.7801	0.1420	0.9050	40- 50	1.931	363.5	100,100
60	0.0635	0.0262	0.0547	0.0262	0.0415	0.0482	0.0437	0.0481	50- 60	0.0791	363.6	100,100
70	0.0241	0.0109	0.0241	0.0109	0.0131	0.0241	0.0197	0.0219	60- 70	0.0298	363.6	100,100
80	0.0131	0.0109	0.0153	0.0109	0.0066	0.0132	0.0066	0.0131	70- 80	0.0138	363.6	100,100
90	0.0087	0.0109	0.0109	0.0109	0.0066	0.0066	0.0066	0.0066	80- 90	0.0101	363.6	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): 363.19 lm

%lum = 99.9%

%lamp = 99.9%

Conical surface Flux(120deg): 363.58 lm

%lum = 100.0%

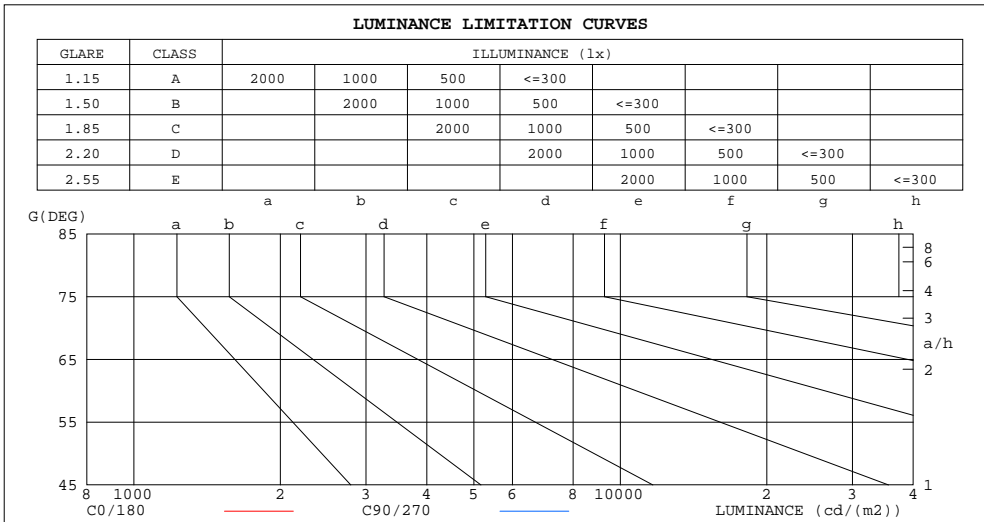
%lamp = 100.0%

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Remarks:

LUMINANCE LIMITATION CURVES

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LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	32	48
80	24	28
75	22	24
70	22	22
65	28	26
60	40	35
55	55	46
50	89	66
45	149	123

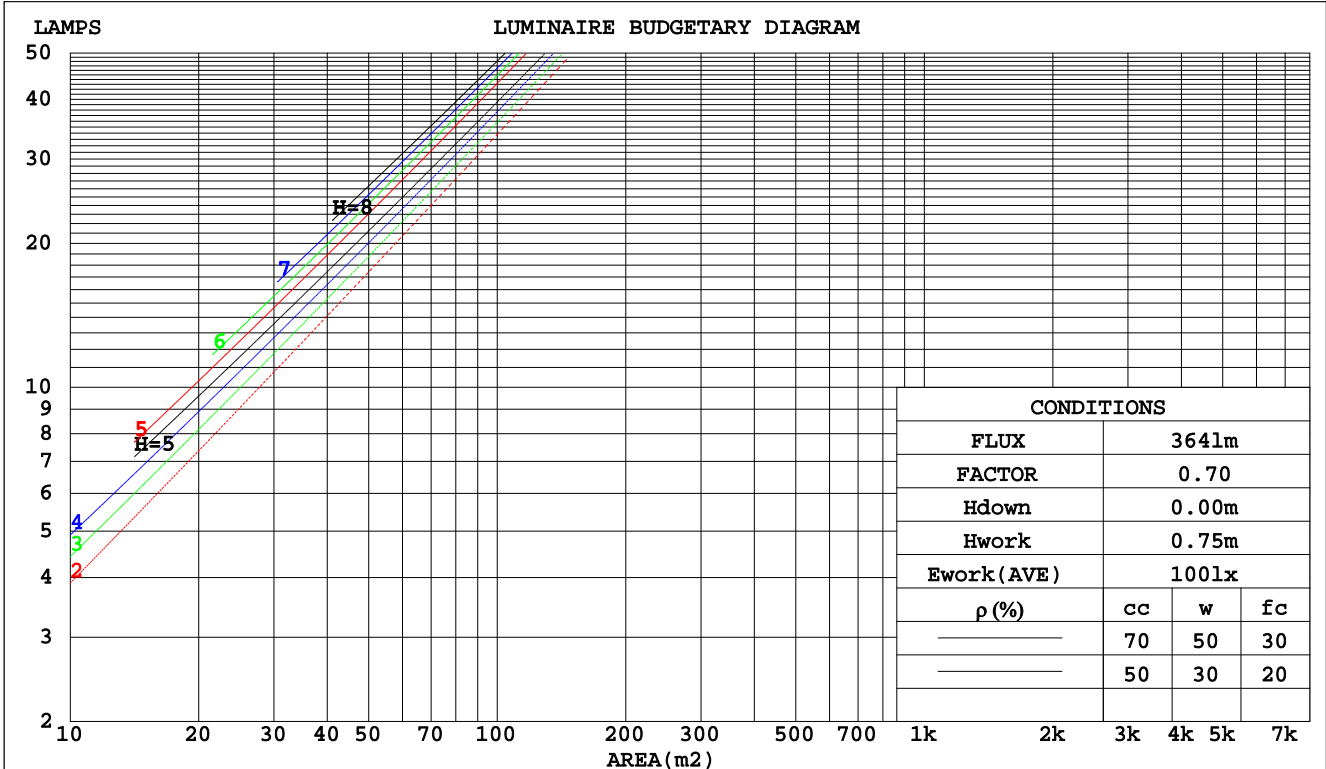
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																
pfc																
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	1.11	1.09	1.11	1.09	1.08	1.07	1.05	1.04	1.03	1.02	1.01	.00	.99	.98	.97
2.0	1.08	1.05	1.02	1.06	1.03	1.01	1.03	1.01	.99	.00	.98	.97	.97	.96	.95	.93
3.0	1.03	.99	.96	1.02	.98	.96	.99	.96	.94	.97	.95	.93	.95	.93	.91	.90
4.0	.99	.95	.92	.98	.94	.91	.96	.93	.90	.94	.91	.89	.92	.90	.88	.87
5.0	.95	.91	.88	.94	.90	.87	.93	.89	.87	.91	.88	.86	.90	.87	.85	.84
6.0	.92	.88	.84	.91	.87	.84	.90	.86	.84	.88	.85	.83	.87	.85	.83	.82
7.0	.89	.84	.81	.88	.84	.81	.87	.83	.81	.86	.83	.81	.85	.82	.80	.79
8.0	.86	.82	.79	.85	.81	.79	.84	.81	.78	.84	.80	.78	.83	.80	.78	.77
9.0	.83	.79	.76	.83	.79	.76	.82	.79	.76	.81	.78	.76	.81	.78	.76	.75
10.0	.81	.77	.74	.81	.77	.74	.80	.76	.74	.79	.76	.74	.79	.76	.74	.73



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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	.137	.078	.025	.131	.075	.024	.118	.068	.022	.107	.062	.020	.097	.056	.018	
2.0	.128	.070	.021	.122	.067	.021	.112	.062	.019	.103	.058	.018	.094	.053	.017	
3.0	.119	.063	.019	.115	.061	.018	.106	.058	.017	.098	.054	.017	.091	.050	.016	
4.0	.112	.058	.017	.108	.057	.017	.101	.054	.016	.094	.051	.015	.088	.048	.015	
5.0	.106	.054	.016	.102	.053	.015	.096	.050	.015	.091	.048	.014	.085	.046	.014	
6.0	.100	.050	.014	.097	.049	.014	.092	.047	.014	.087	.045	.013	.082	.043	.013	
7.0	.095	.047	.013	.093	.046	.013	.088	.045	.013	.084	.043	.013	.080	.041	.012	
8.0	.091	.044	.012	.089	.044	.012	.085	.042	.012	.081	.041	.012	.077	.040	.012	
9.0	.087	.042	.012	.085	.041	.012	.081	.040	.011	.078	.039	.011	.075	.038	.011	
10.0	.083	.040	.011	.082	.039	.011	.078	.038	.011	.075	.037	.011	.073	.037	.010	

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	.148	.144	.135	.127	.099	.093	.088	.057	.054	.051	.018	.017	.017	
2.0	.150	.133	.118	.129	.114	.102	.088	.079	.071	.051	.046	.042	.016	.015	.014	
3.0	.135	.113	.096	.116	.098	.083	.080	.068	.058	.046	.040	.034	.015	.013	.011	
4.0	.123	.098	.079	.106	.085	.068	.073	.059	.048	.042	.035	.029	.014	.011	.009	
5.0	.113	.086	.066	.097	.074	.057	.067	.052	.040	.039	.030	.024	.012	.010	.008	
6.0	.104	.076	.055	.089	.066	.048	.062	.046	.034	.036	.027	.020	.012	.009	.007	
7.0	.096	.068	.047	.083	.059	.041	.057	.041	.029	.033	.024	.017	.011	.008	.006	
8.0	.090	.061	.041	.077	.053	.036	.054	.037	.025	.031	.022	.015	.010	.007	.005	
9.0	.084	.055	.035	.073	.048	.031	.050	.034	.022	.029	.020	.013	.009	.007	.004	
10.0	.079	.050	.031	.068	.044	.027	.047	.031	.019	.028	.018	.012	.009	.006	.004	

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 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

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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	10.4	11.0	10.6	11.2	11.3	10.0	10.7	10.2	10.8	11.0
3H	10.2	10.8	10.5	11.0	11.2	9.9	10.5	10.1	10.7	10.9
4H	10.2	10.7	10.4	10.9	11.2	9.8	10.4	10.1	10.6	10.8
6H	10.1	10.6	10.3	10.9	11.1	9.7	10.3	10.0	10.5	10.7
8H	10.0	10.6	10.3	10.8	11.1	9.7	10.2	10.0	10.4	10.7
12H	10.0	10.5	10.3	10.8	11.0	9.6	10.1	9.9	10.4	10.7
4H 2H	10.2	10.7	10.4	10.9	11.2	9.8	10.4	10.1	10.6	10.8
3H	10.0	10.5	10.3	10.8	11.0	9.6	10.1	9.9	10.4	10.7
4H	9.9	10.4	10.2	10.6	10.9	9.5	10.0	9.9	10.3	10.6
6H	9.8	10.2	10.1	10.5	10.9	9.4	9.8	9.8	10.2	10.5
8H	9.7	10.1	10.1	10.5	10.8	9.4	9.8	9.8	10.1	10.5
12H	9.7	10.0	10.1	10.4	10.8	9.3	9.7	9.7	10.0	10.4
8H 4H	9.7	10.1	10.1	10.5	10.8	9.4	9.8	9.8	10.1	10.5
6H	9.6	9.9	10.0	10.3	10.7	9.3	9.6	9.7	10.0	10.4
8H	9.6	9.8	10.0	10.3	10.7	9.2	9.5	9.6	9.9	10.3
12H	9.5	9.7	10.0	10.2	10.6	9.1	9.4	9.6	9.8	10.3
12H 4H	9.7	10.0	10.1	10.4	10.8	9.3	9.7	9.7	10.0	10.4
6H	9.6	9.8	10.0	10.3	10.7	9.2	9.5	9.6	9.9	10.3
8H	9.5	9.7	10.0	10.2	10.6	9.1	9.4	9.6	9.8	10.3
Variations with the observer position at spacings:										
S = 1.0H	+ 2.7 / -21.7					+ 2.8 / -21.4				
1.5H	+ 5.3 / -20.5					+ 5.4 / -20.3				
2.0H	+ 4.6 / - 4.7					+ 4.3 / - 3.2				

CIE Pub.117, 363.6 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -3.5)

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UTILIZATION FACTORS TABLE

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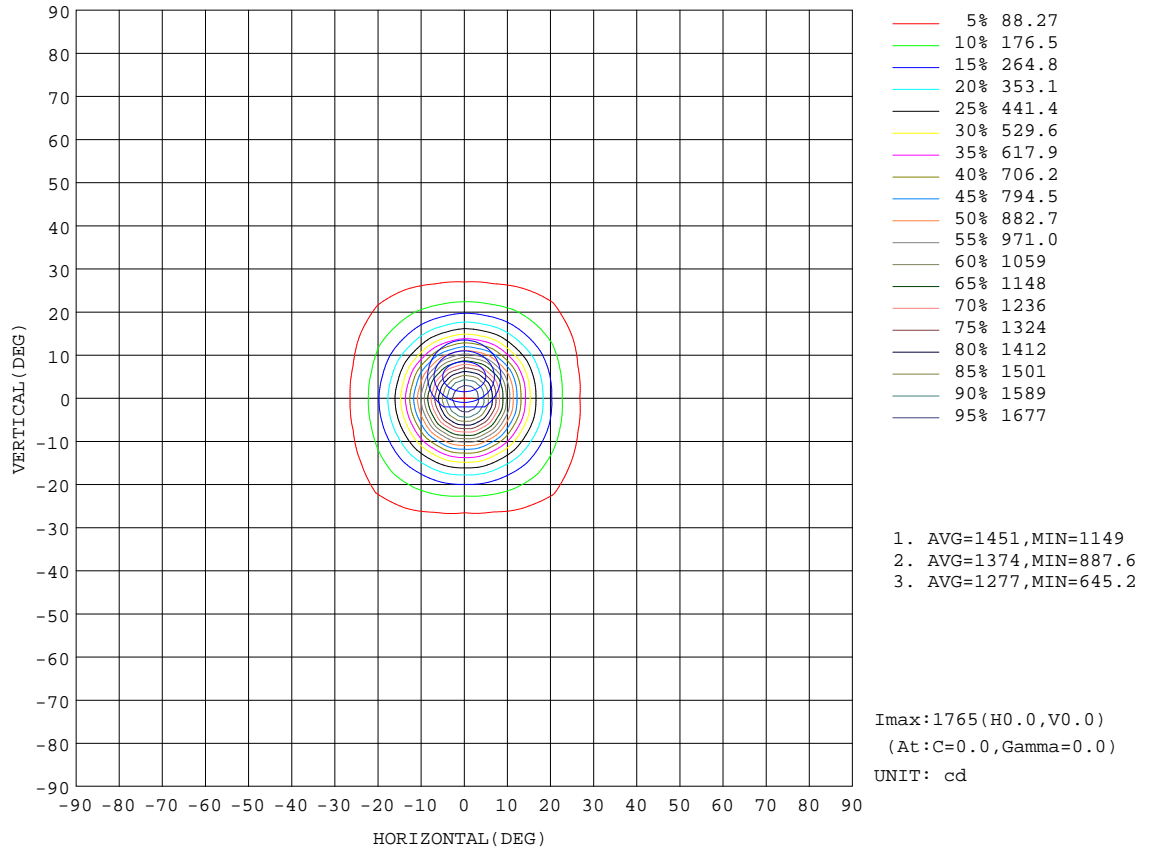
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	91	86	82	91	85	82	90	85	82	79
0.80	98	93	90	98	93	90	96	92	89	86
1.00	102	97	94	101	96	93	100	96	93	89
1.25	105	101	98	104	100	97	103	99	97	93
1.50	108	104	101	107	103	100	104	101	99	95
2.00	110	106	103	109	105	103	106	103	101	96
2.50	111	108	105	110	107	104	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	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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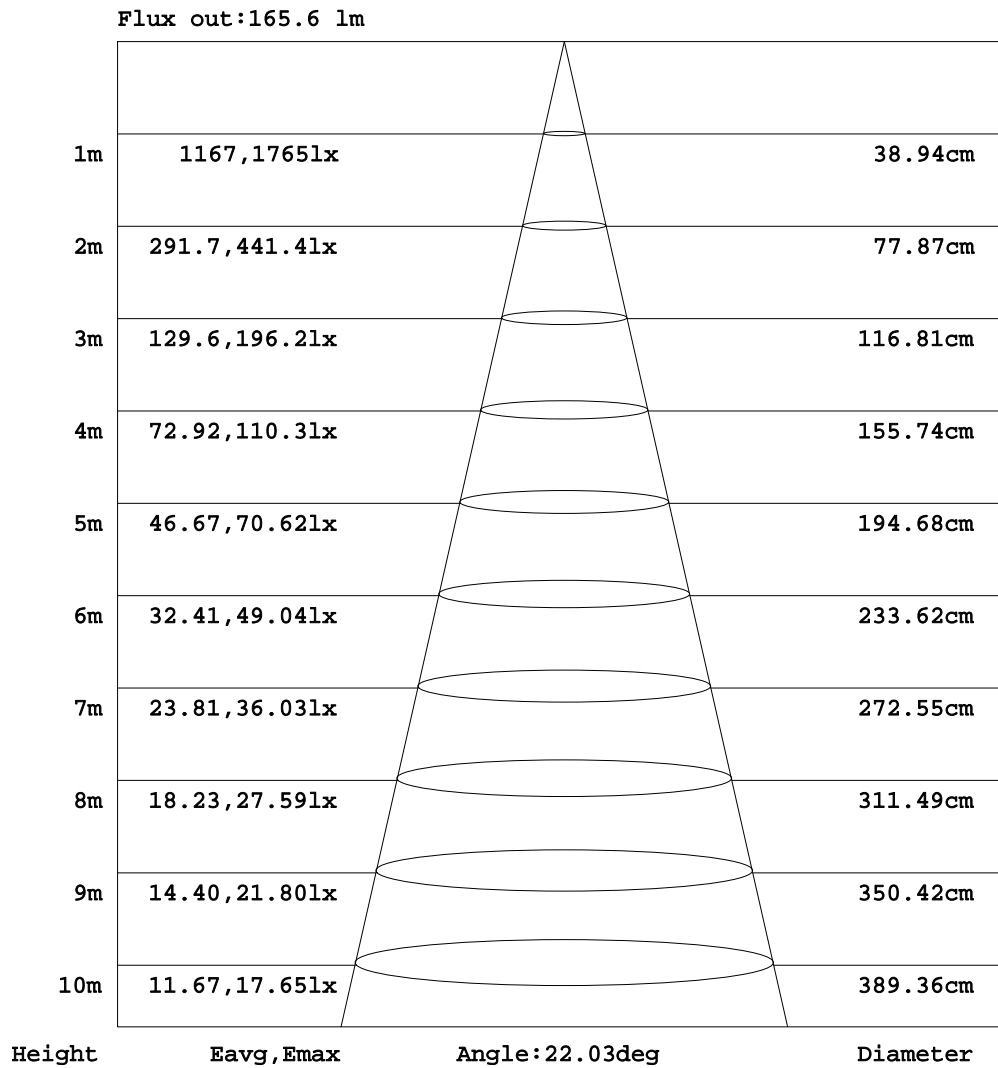


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AAI Figure

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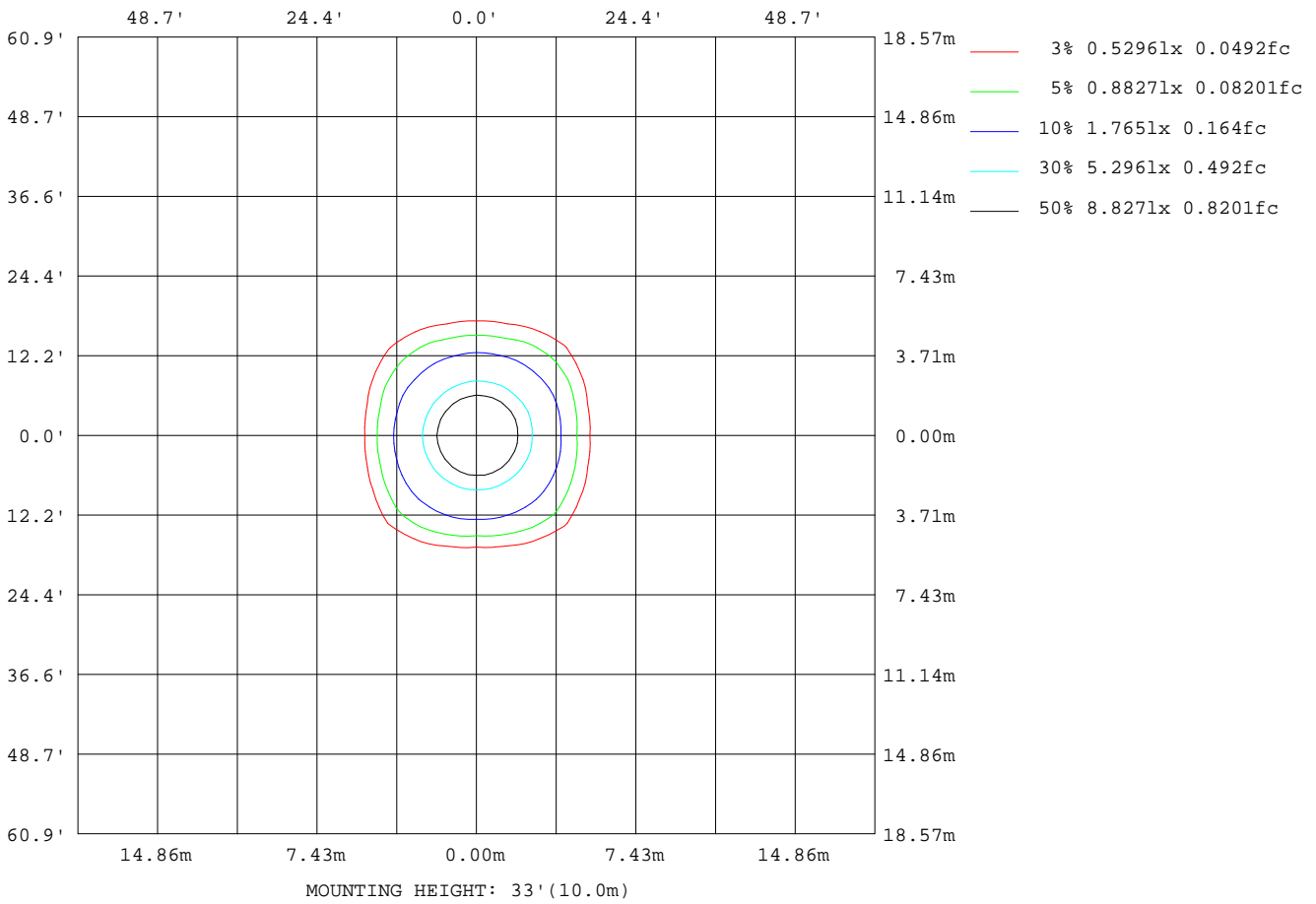
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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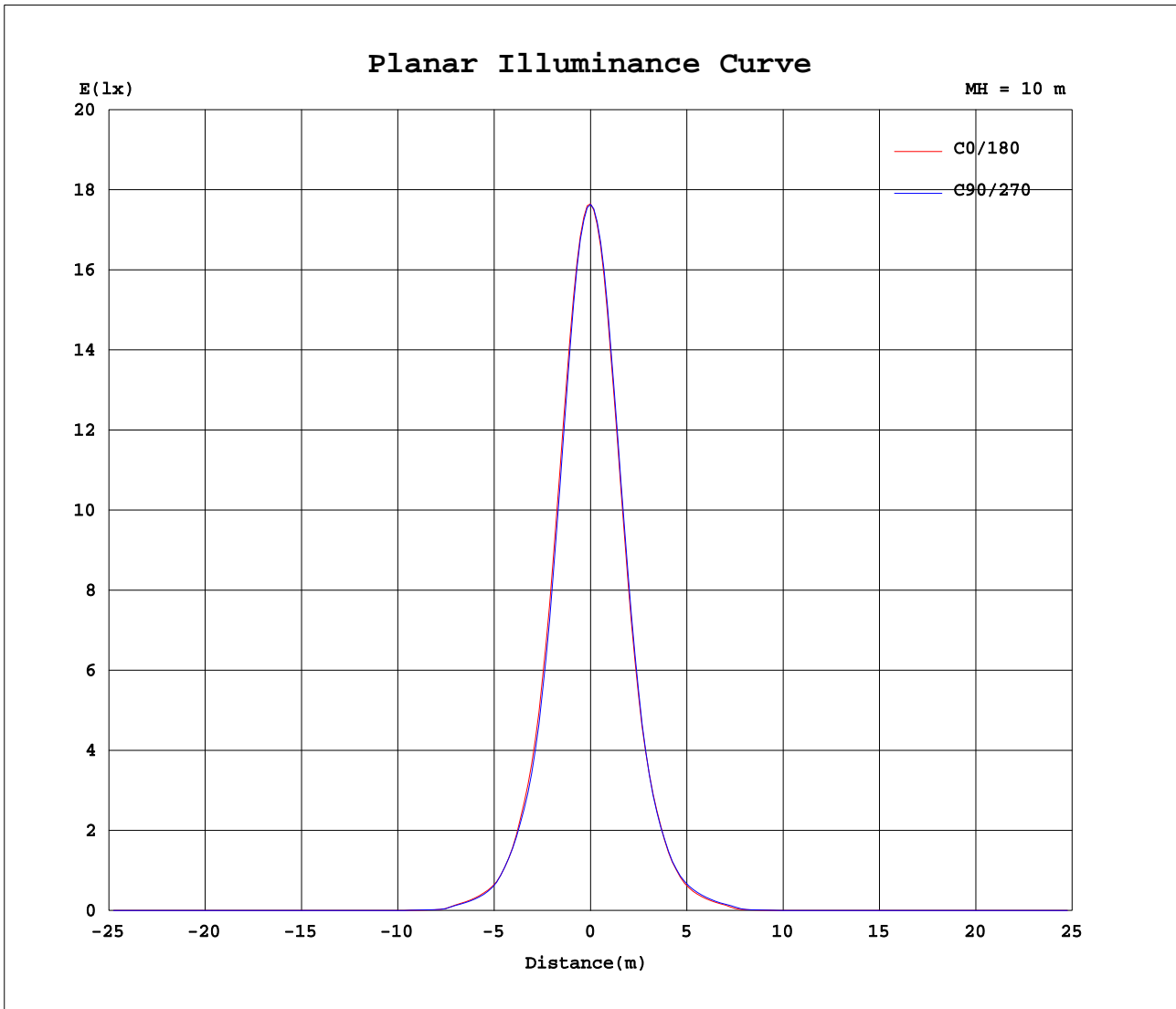
AvgL	cd/m2
L_0~180(65)av	24
L_0~180(75)av	15
L_0~180(85)av	28
L_90~270(65)av	25
L_90~270(75)av	16
L_90~270(85)av	36
L_45(65)av	19
L_45(75)av	17
L_45(85)av	40

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Myles
 Test Date:2018-09-06

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: 2018-09-06

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:220.4V I:0.0312A P:5.381W PF:0.7753 Freq:49.90Hz Lamp Flux:363.63x1 lm		
NAME: FF2-4W-940-24D	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: L70mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

Table--1

UNIT: cd

C(DEC) γ (DEC)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	1765	1764	1765	1764	1764	1763	1764	1763	1763	1763	1762	1763	1765	1764	1765	1764	1764	1763	1764
5	1552	1568	1554	1563	1546	1553	1533	1538	1514	1519	1497	1505	1511	1492	1503	1493	1512	1507	1530
10	1032	1044	1023	1030	1008	1014	990	995	973	982	959	967	979	954	967	953	977	969	1000
15	549	558	545	549	530	532	516	523	512	519	505	507	510	496	503	494	505	499	518
20	277	287	286	289	278	273	264	270	270	274	263	258	256	252	257	252	253	248	253
25	119	133	149	162	151	132	118	133	149	154	136	117	112	117	136	138	137	119	116
30	56.9	60.9	71.4	89.4	70.4	57.0	52.7	57.5	70.1	84.6	64.8	55.3	53.8	55.9	67.1	79.8	72.4	61.3	60.0
35	25.7	28.3	32.6	39.2	31.3	26.4	23.3	26.3	30.2	36.7	29.3	25.6	25.0	26.5	32.2	38.1	35.0	29.4	28.8
40	3.62	4.53	10.1	15.2	8.55	4.78	4.24	4.72	8.75	14.3	8.36	4.49	3.89	4.26	9.12	15.3	12.8	4.82	4.34
45	0.33	0.68	2.68	3.60	2.24	0.36	0.27	0.36	2.20	3.32	2.48	0.39	0.32	0.40	2.27	3.64	2.49	1.08	0.34
50	0.18	0.14	0.16	0.79	0.12	0.10	0.13	0.10	0.12	0.66	0.16	0.15	0.16	0.18	0.16	0.78	0.13	0.15	0.14
55	0.10	0.07	0.08	0.04	0.07	0.06	0.08	0.05	0.07	0.04	0.09	0.08	0.08	0.11	0.07	0.08	0.07	0.10	0.08
60	0.06	0.04	0.05	0.03	0.04	0.03	0.05	0.03	0.05	0.03	0.05	0.04	0.04	0.07	0.04	0.05	0.04	0.06	0.04
65	0.04	0.02	0.03	0.02	0.03	0.02	0.04	0.02	0.03	0.02	0.03	0.03	0.03	0.04	0.02	0.03	0.03	0.04	0.03
70	0.02	0.01	0.02	0.01	0.02	0.01	0.02	0.01	0.02	0.01	0.02	0.02	0.01	0.03	0.01	0.02	0.01	0.03	0.02
75	0.02	0.00	0.02	0.01	0.02	0.01	0.02	0.01	0.02	0.01	0.02	0.01	0.01	0.02	0.00	0.02	0.00	0.02	0.01
80	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.02	0.01	0.02	0.01	0.01	0.01	0.00	0.01	0.00	0.02	0.01
85	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	0.00	0.01	0.00	0.01	0.01
90	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	0.00	0.01	0.00	0.01	0.01

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Myles
 Test Date:2018-09-06

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:220.4V I:0.0312A P:5.381W PF:0.7753 Freq:49.90Hz Lamp Flux:363.63x1 lm		
NAME: FF2-4W-940-24D	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: L70mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345													
0	1763	1763	1763	1762	1763													
5	1528	1552	1549	1567	1560													
10	999	1032	1032	1058	1046													
15	521	548	550	568	560													
20	256	271	278	288	284													
25	121	144	151	151	130													
30	61.9	74.5	87.2	72.8	60.4													
35	30.1	36.8	42.0	35.3	29.2													
40	5.02	14.4	17.8	10.5	4.31													
45	1.23	2.78	4.20	2.38	0.47													
50	0.15	0.13	0.91	0.15	0.18													
55	0.09	0.07	0.07	0.07	0.10													
60	0.06	0.04	0.05	0.03	0.06													
65	0.04	0.03	0.03	0.02	0.04													
70	0.03	0.01	0.02	0.00	0.02													
75	0.02	0.01	0.02	0.00	0.01													
80	0.02	0.01	0.01	0.00	0.01													
85	0.01	0.01	0.01	0.00	0.01													
90	0.01	0.01	0.01	0.00	0.00													

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Myles
 Test Date:2018-09-06

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: