

LED Downlight FUSION Series FF3-FS1-9W-930-24D



Light Output Ratio:	100.0%	
Luminaire Power:	10.67 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	1.00	fine grid method.

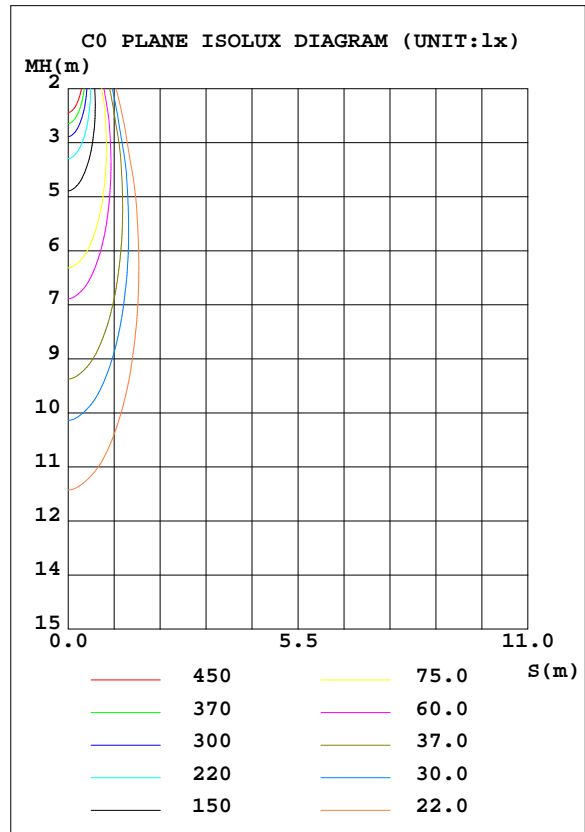
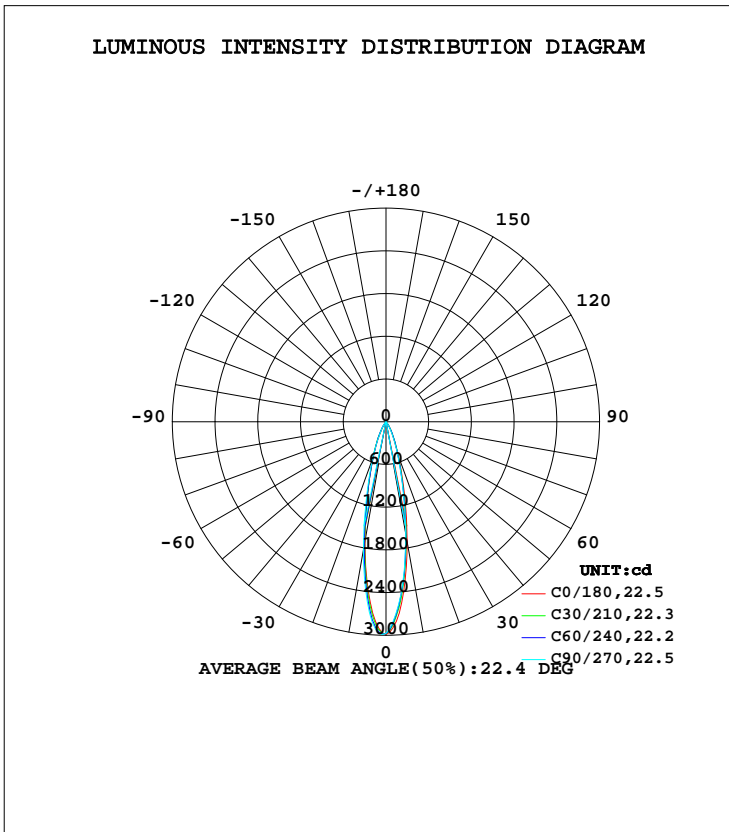
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Myles
Test Date: 2018-06-08

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:220.7V I:0.0557A P:10.67W PF:0.8672 Freq:49.90Hz Lamp Flux:666.479x1 lm		
NAME: FF3-FS1-9W-930-24D	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L153mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 62.46 lm/W			
MODEL	OSRAM-3000K	I _{max} (cd)	3003	S/MH(C0/180)	0.38
NOMINAL POWER(W)	11	LOR(%)	100.0	S/MH(C90/270)	0.41
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	666.48	η UP, DN(C0-180)	0.0,48.1
NOMINAL FLUX(lm)	666.479	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,51.9
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	1711	1637	1593	1631	1699	1717	1833	1814	0- 10	215.6	215.6	32.3,32.3
20	503.5	497.4	470.4	511.2	526.5	518.0	547.6	525.6	10- 20	267.9	483.5	72.5,72.5
30	130.6	162.3	112.6	165.1	112.6	162.6	131.7	162.0	20- 30	127.8	611.3	91.7,91.7
40	15.16	32.44	14.12	28.26	16.20	32.21	19.23	38.15	30- 40	41.34	652.6	97.9,97.9
50	5.859	5.901	4.419	5.411	5.535	6.975	7.017	7.529	40- 50	8.606	661.2	99.2,99.2
60	2.497	2.100	1.863	1.877	2.278	2.702	3.113	2.859	50- 60	3.382	664.6	99.7,99.7
70	0.8848	0.5433	0.3314	0.3574	0.6280	1.064	1.397	1.241	60- 70	1.553	666.2	100,100
80	0.0328	0.0262	0.0328	0.0262	0.0153	0.0262	0.0240	0.0306	70- 80	0.2740	666.5	100,100
90	0.0262	0.0262	0.0262	0.0262	0.0153	0.0153	0.0153	0.0175	80- 90	0.0250	666.5	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): 658.23 lm

%lum = 98.8%
%lamp = 98.8%

Conical surface Flux(120deg): 664.63 lm

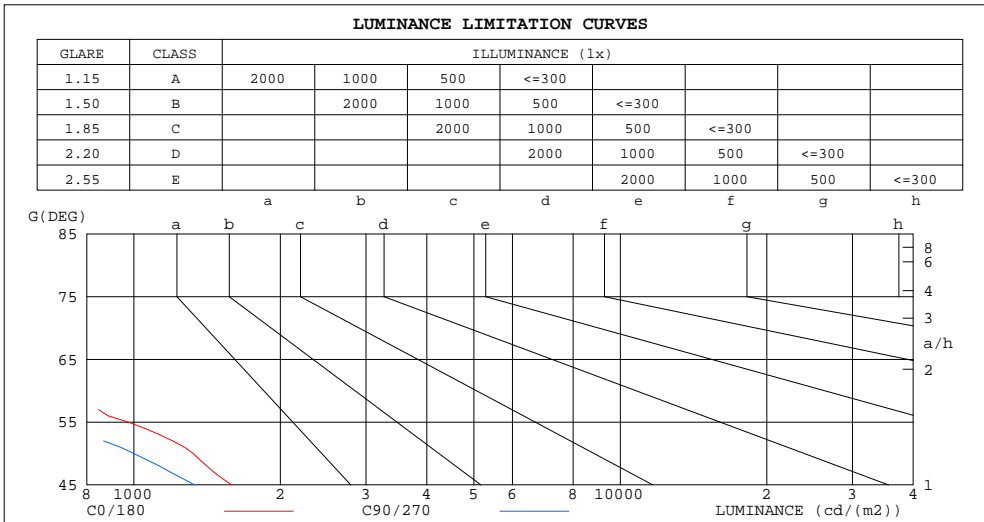
%lum = 99.7%
%lamp = 99.7%

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LUMINANCE LIMITATION CURVES

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LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	40	47
80	27	27
75	52	27
70	376	141
65	566	351
60	725	541
55	973	708
50	1324	999
45	1588	1333

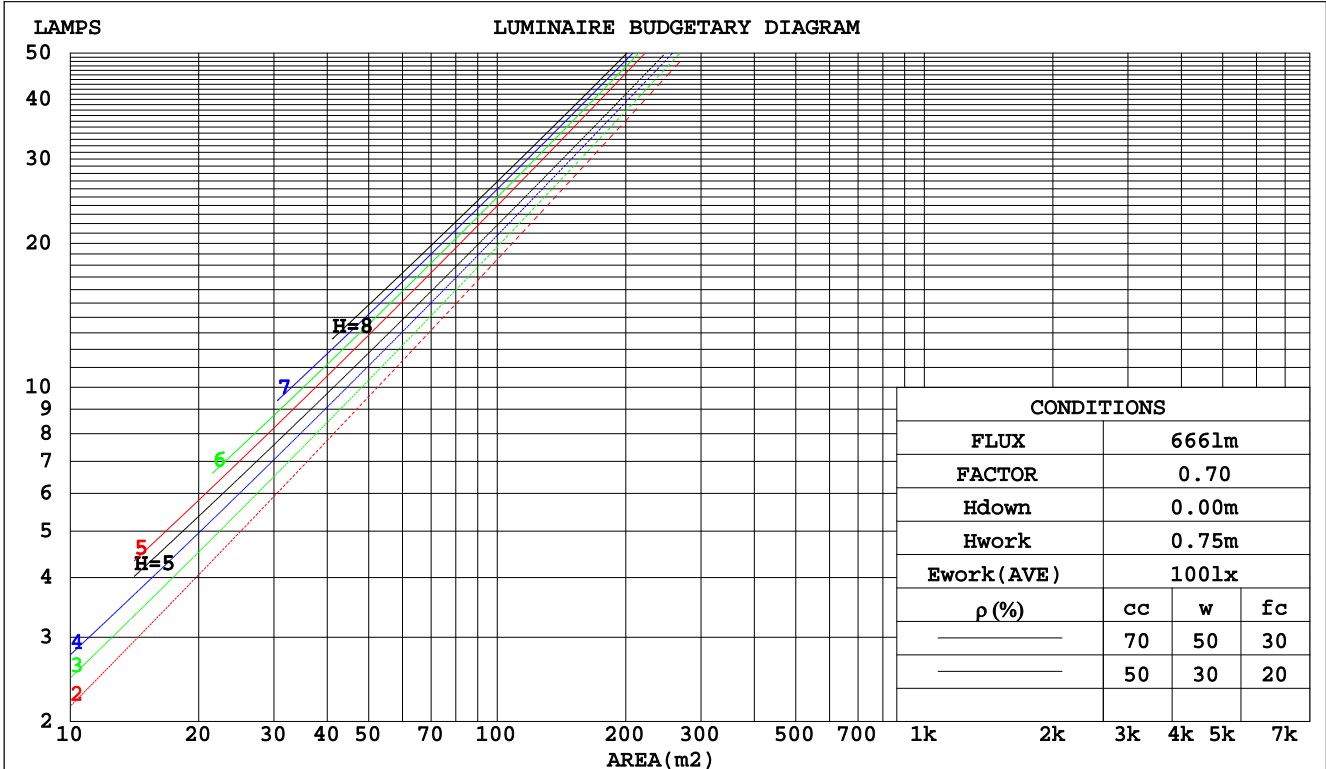
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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	1.13	1.11	1.09	1.10	1.09	1.07	1.06	1.05	1.04	1.03	1.02	1.01	.99	.99	.98	.96
2.0	1.07	1.04	1.01	1.05	1.02	1.00	1.02	.99	.98	.99	.97	.96	.97	.95	.94	.92
3.0	1.02	.98	.95	1.01	.97	.94	.98	.95	.93	.96	.94	.92	.94	.92	.90	.89
4.0	.98	.93	.90	.97	.93	.90	.95	.91	.89	.93	.90	.88	.91	.89	.87	.86
5.0	.94	.89	.86	.93	.89	.86	.91	.88	.85	.90	.87	.84	.88	.86	.84	.82
6.0	.90	.86	.83	.89	.85	.82	.88	.84	.82	.87	.84	.81	.86	.83	.81	.80
7.0	.87	.83	.79	.86	.82	.79	.85	.82	.79	.84	.81	.78	.83	.80	.78	.77
8.0	.84	.80	.77	.83	.79	.76	.83	.79	.76	.82	.78	.76	.81	.78	.76	.75
9.0	.81	.77	.74	.81	.77	.74	.80	.76	.74	.79	.76	.73	.79	.75	.73	.72
10.0	.79	.74	.72	.78	.74	.72	.78	.74	.71	.77	.74	.71	.76	.73	.71	.70



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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	.143	.081	.026	.136	.078	.025	.124	.071	.023	.112	.065	.021	.102	.059	.019	
2.0	.133	.073	.022	.128	.070	.022	.118	.065	.020	.108	.061	.019	.099	.056	.018	
3.0	.125	.066	.020	.120	.064	.019	.112	.060	.018	.104	.057	.017	.096	.053	.017	
4.0	.117	.061	.018	.114	.059	.018	.106	.056	.017	.099	.053	.016	.093	.051	.015	
5.0	.111	.056	.016	.108	.055	.016	.101	.053	.016	.096	.050	.015	.090	.048	.014	
6.0	.105	.053	.015	.102	.052	.015	.097	.050	.014	.092	.048	.014	.087	.046	.014	
7.0	.100	.049	.014	.098	.049	.014	.093	.047	.014	.088	.045	.013	.084	.044	.013	
8.0	.095	.047	.013	.093	.046	.013	.089	.045	.013	.085	.043	.012	.082	.042	.012	
9.0	.091	.044	.012	.089	.044	.012	.086	.042	.012	.082	.041	.012	.079	.040	.012	
10.0	.087	.042	.012	.086	.041	.012	.082	.040	.011	.079	.039	.011	.076	.038	.011	

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	.148	.144	.135	.127	.099	.093	.088	.057	.054	.051	.018	.017	.017	
2.0	.151	.133	.117	.129	.114	.101	.089	.079	.071	.051	.046	.041	.016	.015	.013	
3.0	.137	.113	.095	.117	.098	.082	.080	.068	.058	.046	.040	.034	.015	.013	.011	
4.0	.124	.098	.078	.107	.085	.068	.073	.059	.048	.042	.035	.028	.014	.011	.009	
5.0	.114	.086	.065	.098	.074	.056	.068	.052	.040	.039	.030	.024	.013	.010	.008	
6.0	.105	.076	.055	.091	.066	.048	.063	.046	.034	.036	.027	.020	.012	.009	.007	
7.0	.098	.068	.047	.084	.059	.041	.058	.041	.029	.034	.024	.017	.011	.008	.006	
8.0	.092	.061	.040	.079	.053	.035	.055	.037	.025	.032	.022	.015	.010	.007	.005	
9.0	.086	.056	.035	.074	.048	.031	.051	.034	.022	.030	.020	.013	.010	.007	.004	
10.0	.081	.051	.031	.070	.044	.027	.049	.031	.019	.028	.018	.011	.009	.006	.004	

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 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	9.4	10.1	9.6	10.2	10.4	8.6	9.3	8.8	9.4	9.6
3H	9.3	9.9	9.5	10.1	10.3	8.4	9.1	8.7	9.3	9.5
4H	9.2	9.8	9.5	10.0	10.2	8.4	9.0	8.6	9.2	9.4
6H	9.1	9.7	9.4	9.9	10.2	8.3	8.9	8.6	9.1	9.3
8H	9.1	9.6	9.4	9.9	10.1	8.2	8.8	8.5	9.0	9.3
12H	9.0	9.6	9.3	9.8	10.1	8.2	8.7	8.5	9.0	9.3
4H 2H	9.2	9.8	9.4	10.0	10.2	8.4	9.0	8.7	9.2	9.4
3H	9.1	9.6	9.4	9.9	10.1	8.3	8.8	8.6	9.0	9.3
4H	9.0	9.5	9.3	9.8	10.1	8.2	8.6	8.5	8.9	9.2
6H	8.9	9.3	9.3	9.6	10.0	8.1	8.5	8.4	8.8	9.2
8H	8.8	9.2	9.2	9.6	9.9	8.0	8.4	8.4	8.8	9.1
12H	8.8	9.1	9.2	9.5	9.9	7.9	8.3	8.4	8.7	9.1
8H 4H	8.8	9.2	9.2	9.6	9.9	8.0	8.4	8.4	8.8	9.1
6H	8.7	9.1	9.1	9.4	9.9	7.9	8.2	8.3	8.6	9.0
8H	8.7	9.0	9.1	9.4	9.8	7.8	8.1	8.3	8.5	9.0
12H	8.6	8.9	9.1	9.3	9.8	7.8	8.0	8.2	8.5	8.9
12H 4H	8.8	9.1	9.2	9.5	9.9	7.9	8.3	8.4	8.7	9.1
6H	8.7	9.0	9.1	9.4	9.8	7.8	8.1	8.3	8.5	9.0
8H	8.6	8.9	9.1	9.3	9.8	7.8	8.0	8.2	8.5	8.9
Variations with the observer position at spacings:										
S = 1.0H	+ 2.8 / - 5.0					+ 2.6 / - 6.3				
1.5H	+ 4.8 / - 4.3					+ 4.6 / - 4.7				
2.0H	+ 2.6 / - 2.6					+ 2.5 / - 2.7				

CIE Pub.117, 666.5 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.4)

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UTILIZATION FACTORS TABLE

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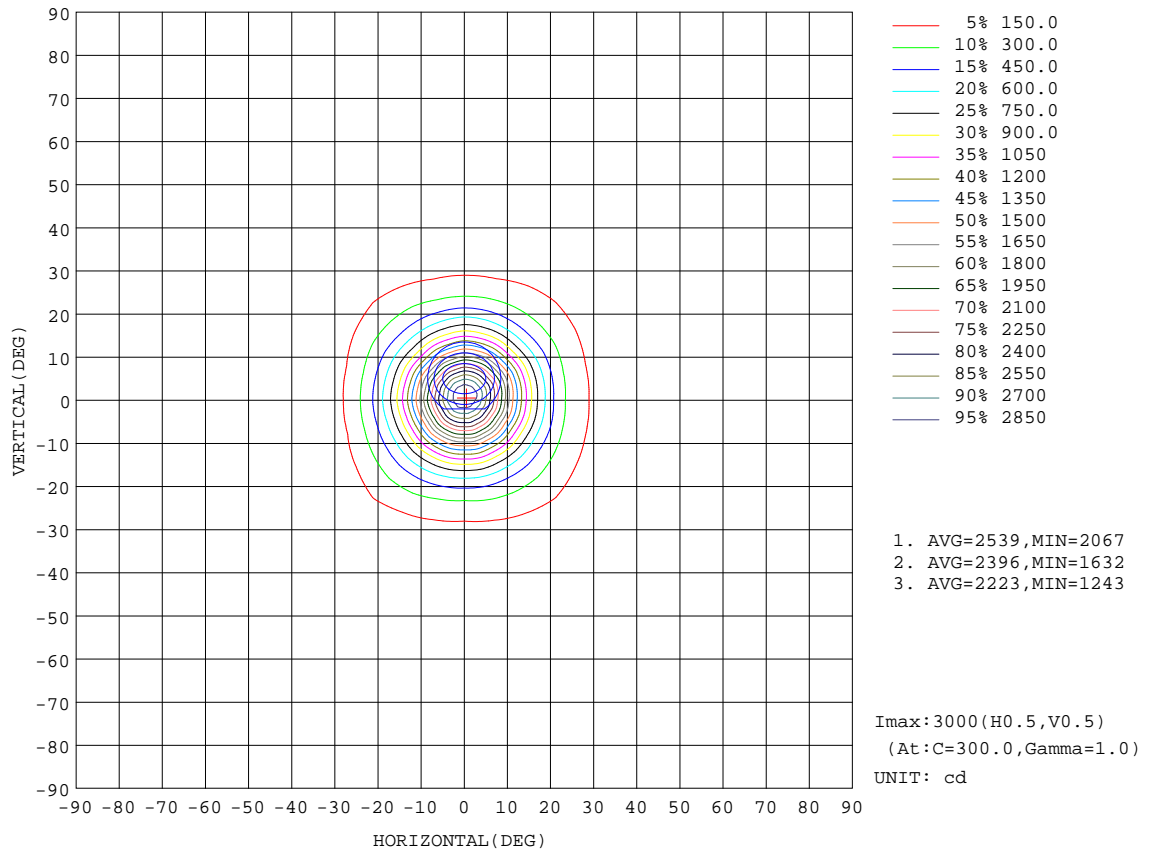
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	90	84	81	90	84	81	89	84	81	77
0.80	97	92	89	97	92	88	96	91	88	85
1.00	101	96	93	100	96	93	99	95	92	88
1.25	105	100	97	104	100	97	102	98	96	92
1.50	107	103	100	106	102	99	104	101	98	94
2.00	110	106	103	108	105	102	106	103	101	96
2.50	111	108	105	110	106	104	106	104	102	96
3.00	112	109	107	111	108	106	107	105	104	97
4.00	114	112	110	112	110	108	109	107	106	99
5.00	116	114	112	113	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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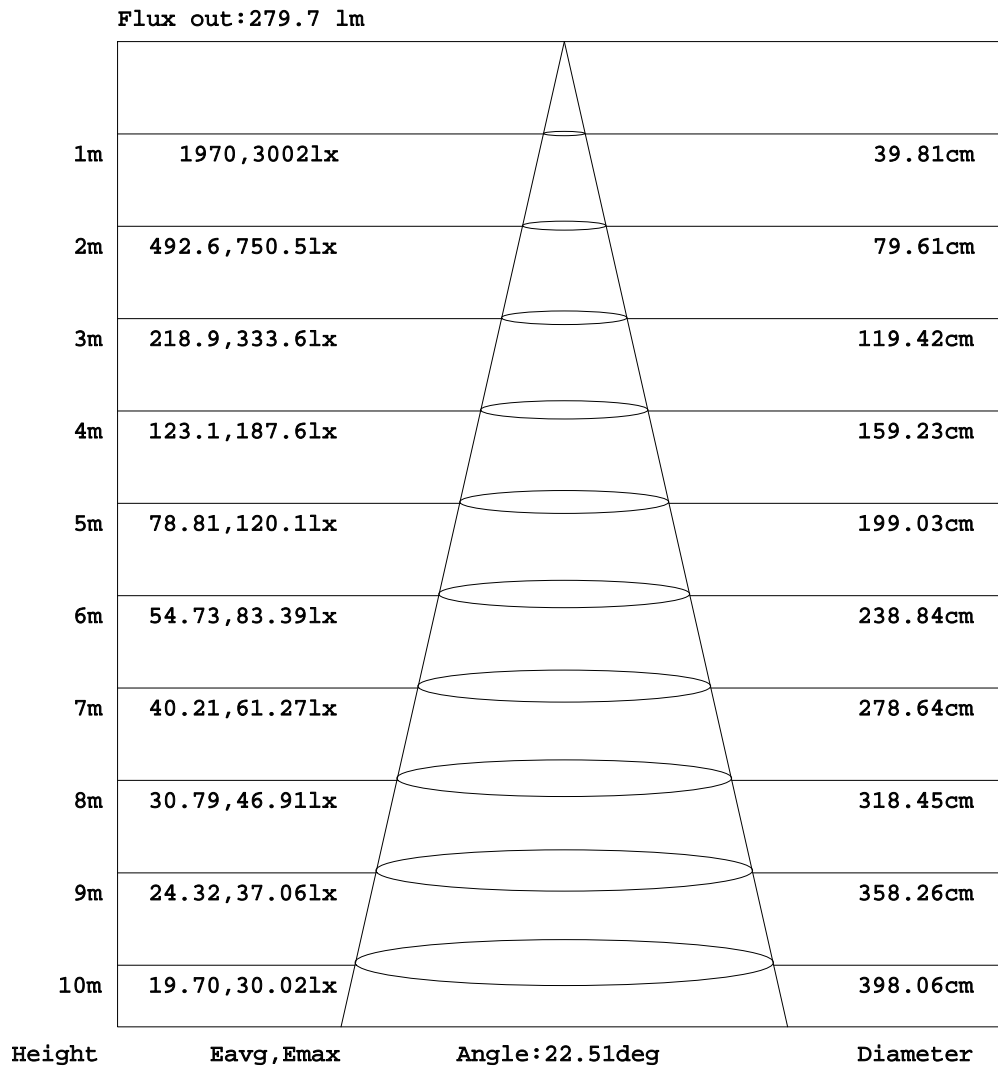


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AAI Figure

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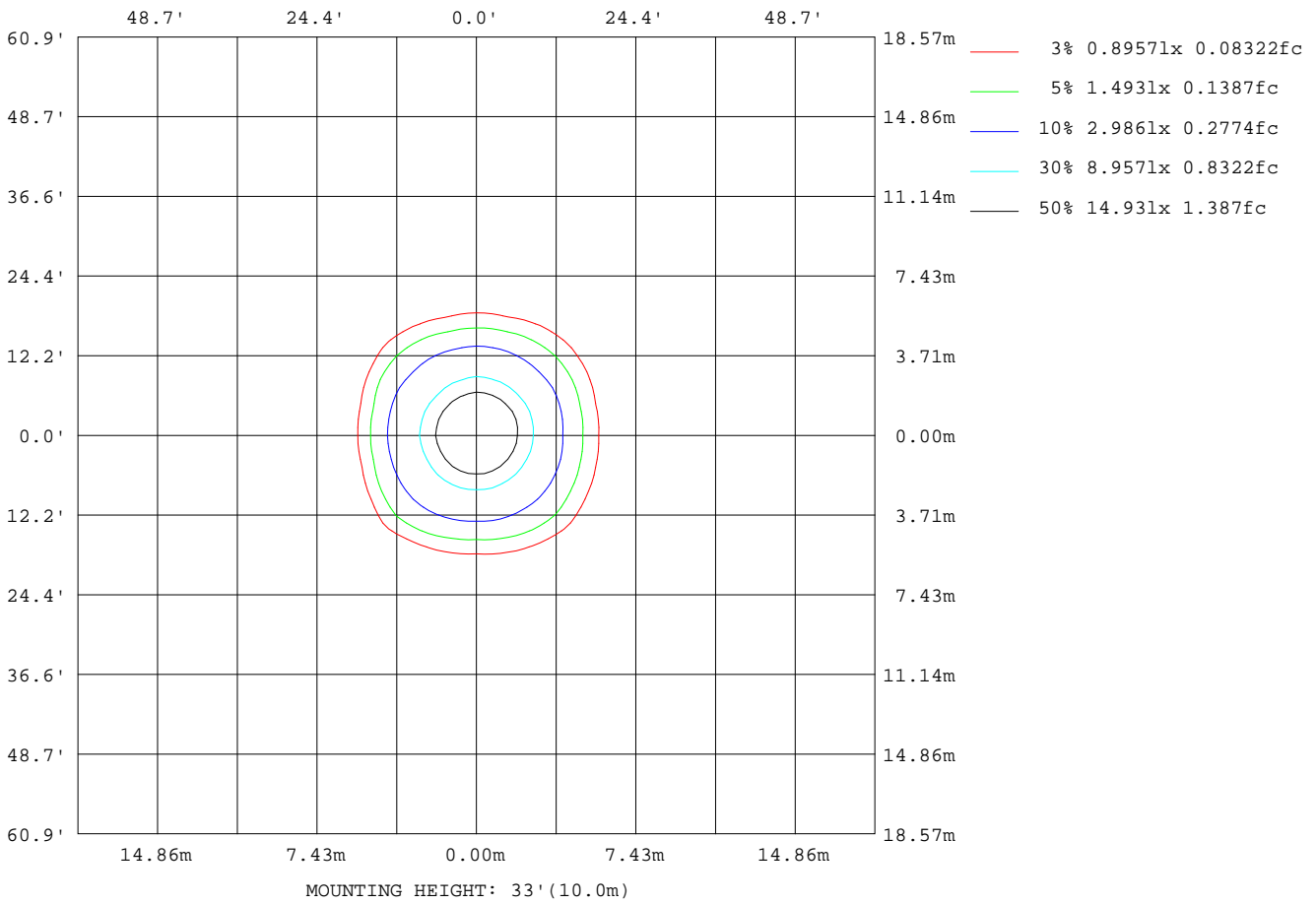
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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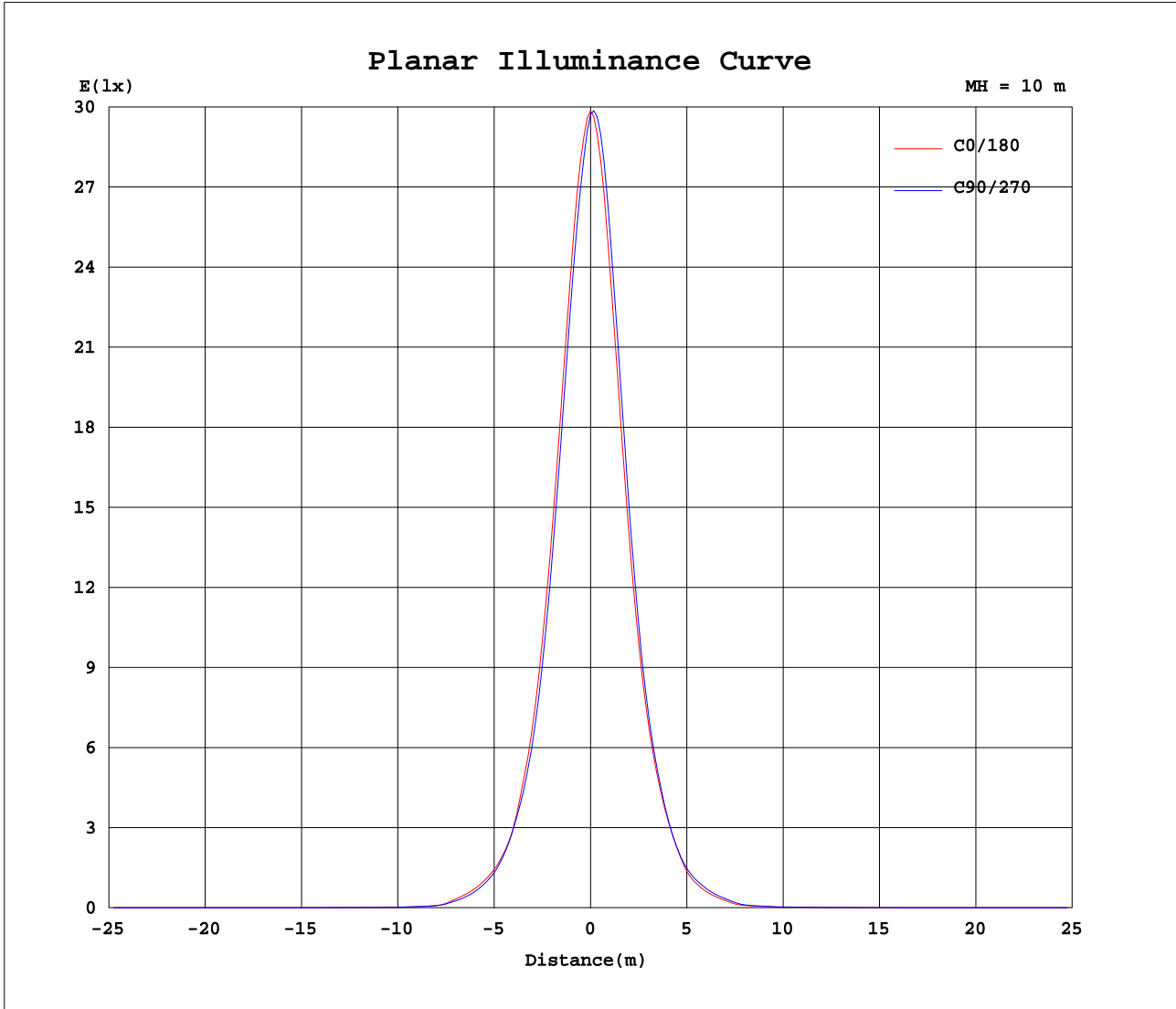
AvgL	cd/m2
L_0~180(65)av	526
L_0~180(75)av	33
L_0~180(85)av	33
L_90~270(65)av	556
L_90~270(75)av	173
L_90~270(85)av	36
L_45(65)av	531
L_45(75)av	89
L_45(85)av	40

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Myles
Test Date:2018-06-08

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: 2018-06-08

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:220.7V I:0.0557A P:10.67W PF:0.8672 Freq:49.90Hz Lamp Flux:666.479x1 lm		
NAME: FF3-FS1-9W-930-24D	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	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	2986	2983	2978	2982	2976	2977	2971	2977	2992	2995	2991	2992	2986	2983	2978	2982	2976	2977	2971
5	2551	2535	2479	2475	2440	2455	2429	2450	2464	2485	2476	2503	2548	2546	2586	2601	2645	2646	2686
10	1711	1690	1636	1637	1606	1622	1593	1611	1611	1631	1612	1644	1699	1688	1728	1717	1769	1770	1833
15	970	955	917	920	894	902	882	897	901	919	905	923	966	958	967	948	980	989	1028
20	504	507	495	497	482	480	470	482	498	511	504	505	526	522	532	518	524	527	548
25	245	253	267	282	271	252	233	247	282	297	280	258	257	266	292	293	287	262	261
30	131	136	146	162	141	123	113	119	134	165	129	111	113	117	141	163	146	129	132
35	59.3	62.1	67.6	75.1	64.1	53.8	47.8	51.2	55.9	66.3	52.2	47.9	49.9	53.8	62.5	74.9	71.1	64.0	62.5
40	15.2	15.8	23.3	32.4	24.2	15.2	14.1	15.5	22.7	28.3	20.4	16.0	16.2	17.2	23.9	32.2	28.2	19.8	19.2
45	7.73	7.91	9.59	12.1	9.50	7.11	6.49	7.19	9.18	11.3	10.2	7.17	7.66	8.22	12.1	13.4	12.6	10.2	9.65
50	5.86	5.45	5.08	5.90	4.78	4.64	4.42	4.52	4.43	5.41	4.61	4.90	5.54	5.81	6.21	6.98	6.57	6.81	7.02
55	3.84	3.56	3.23	3.14	2.99	2.85	2.79	2.73	2.74	2.78	2.87	3.03	3.40	3.60	3.97	4.09	4.42	4.61	4.85
60	2.50	2.37	2.25	2.10	1.97	1.92	1.86	1.84	1.83	1.88	1.94	2.05	2.28	2.44	2.61	2.70	2.85	2.99	3.11
65	1.65	1.52	1.41	1.26	1.14	1.07	1.02	1.00	1.01	1.05	1.10	1.21	1.41	1.57	1.75	1.85	1.97	2.10	2.22
70	0.88	0.77	0.67	0.54	0.43	0.36	0.33	0.32	0.33	0.36	0.39	0.46	0.63	0.78	0.96	1.06	1.18	1.30	1.40
75	0.09	0.03	0.04	0.03	0.04	0.03	0.05	0.03	0.04	0.03	0.04	0.03	0.02	0.04	0.02	0.08	0.29	0.45	0.57
80	0.03	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.03	0.02	0.03	0.02
85	0.02	0.02	0.03	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
90	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Myles
 Test Date:2018-06-08

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:220.7V I:0.0557A P:10.67W PF:0.8672 Freq:49.90Hz Lamp Flux:666.479x1 lm		
NAME: FF3-FS1-9W-930-24D	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L153mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345															
0	2977	2992	2995	2991	2992															
5	2682	2679	2651	2656	2610															
10	1825	1841	1814	1826	1773															
15	1022	1028	1009	1025	1001															
20	541	531	526	536	522															
25	268	279	284	281	258															
30	131	151	162	154	135															
35	66.6	77.8	85.9	77.4	67.3															
40	20.7	31.7	38.2	29.5	17.2															
45	10.2	12.9	15.2	11.8	8.87															
50	6.82	6.78	7.53	6.42	6.06															
55	4.71	4.66	4.43	4.40	4.11															
60	3.04	2.99	2.86	2.81	2.65															
65	2.17	2.11	2.02	1.95	1.81															
70	1.37	1.32	1.24	1.17	1.05															
75	0.57	0.55	0.49	0.43	0.32															
80	0.03	0.02	0.03	0.02	0.03															
85	0.02	0.02	0.02	0.02	0.02															
90	0.02	0.02	0.02	0.02	0.02															

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Myles
 Test Date:2018-06-08

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: