

LED Downlight FUSION Series FF6-FS2-17W-930-40D



Light Output Ratio:	100.0%	
Luminaire Power:	19.67 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.55	fine grid method.

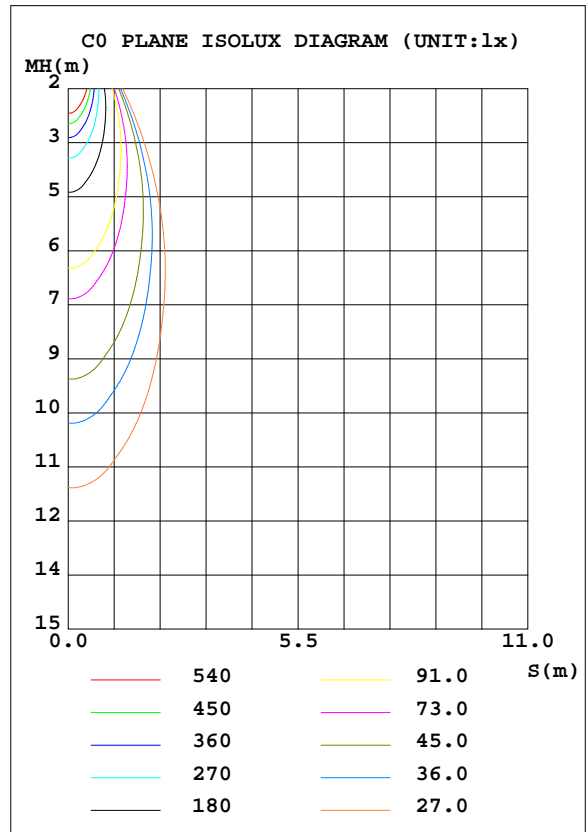
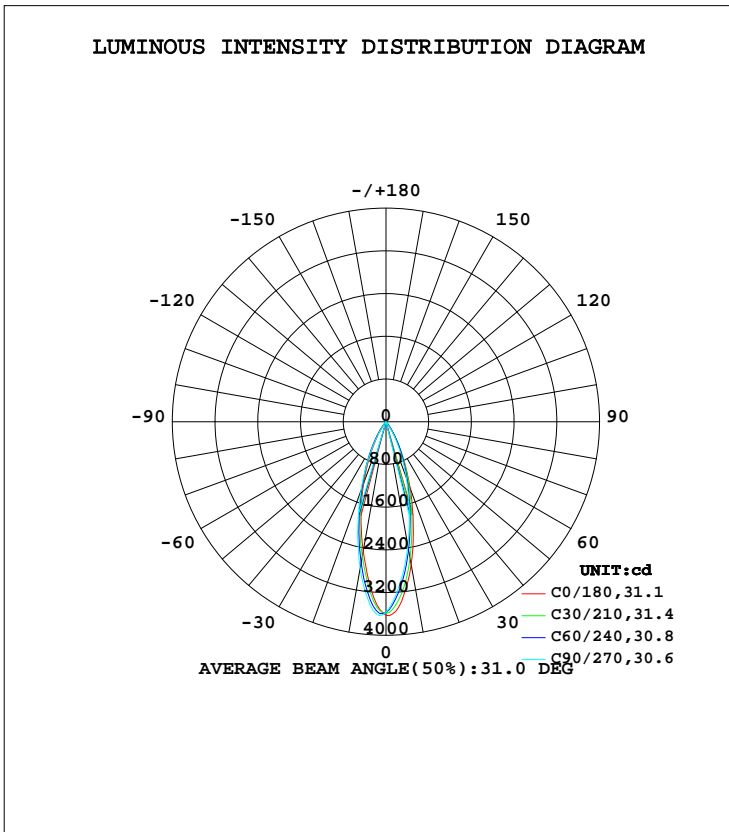
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Myles  
 Test Date: 2018-09-06

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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:220.3V I:0.0942A P:19.67W PF:0.9543 Freq:49.90Hz Lamp Flux:1298.11x1 lm		
NAME: FF6-FS2-17W-930-40D	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L290mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 65.99 lm/W			
MODEL	OSRAM-3000K	I <sub>max</sub> (cd)	3660	S/MH(C0/180)	0.49
NOMINAL POWER(W)	19	LOR(%)	100.0	S/MH(C90/270)	0.55
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	1298.1	η UP, DN(C0-180)	0.0,47.5
NOMINAL FLUX(lm)	1298.11	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,52.5
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	0.55



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:

**ZONAL FLUX DIAGRAM**

ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	2723	2528	2367	2358	2459	2601	2792	2794	0- 10	287.6	287.6	22.2,22.2
20	1326	1216	1117	1155	1225	1285	1367	1386	10- 20	516.1	803.7	61.9,61.9
30	357.5	461.4	324.6	428.5	356.4	481.5	395.6	514.5	20- 30	355.6	1159	89.3,89.3
40	33.57	84.08	26.32	82.08	28.30	89.13	35.36	90.18	30- 40	111.5	1271	97.9,97.9
50	12.45	11.56	9.942	10.74	10.72	12.52	12.68	13.59	40- 50	17.11	1288	99.2,99.2
60	5.239	4.599	4.086	4.114	4.517	4.767	5.315	5.294	50- 60	6.711	1295	99.7,99.7
70	1.835	1.386	0.9410	1.047	1.236	1.561	2.032	1.985	60- 70	3.027	1298	100,100
80	0.0765	0.0568	0.0744	0.0590	0.0459	0.0678	0.0611	0.0700	70- 80	0.4808	1298	100,100
90	0.0525	0.0568	0.0590	0.0590	0.0350	0.0350	0.0394	0.0372	80- 90	0.0586	1298	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): 1281.9 lm

%lum = 98.8%  
%lamp = 98.8%

Conical surface Flux(120deg): 1294.5 lm

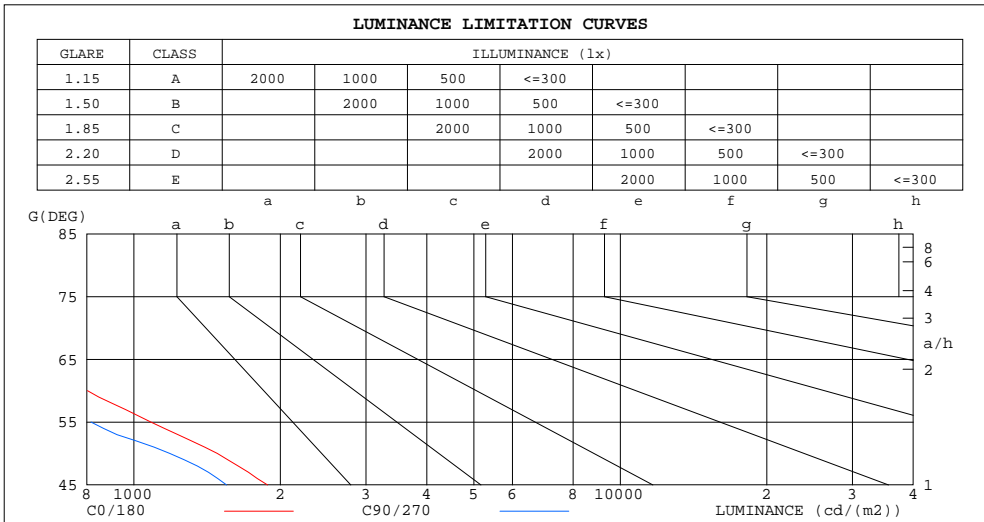
%lum = 99.7%  
%lamp = 99.7%

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

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:56%  
Test Distance:5.850m [K=1.0000]  
Remarks:

**LUMINANCE LIMITATION CURVES**

Test:U:220.3V I:0.0942A P:19.67W PF:0.9543 Freq:49.90Hz Lamp Flux:1298.11x1 lm		
NAME: FF6-FS2-17W-930-40D	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L290mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	52	60
80	34	33
75	119	29
70	411	211
65	623	442
60	803	626
55	1084	816
50	1484	1185
45	1883	1551

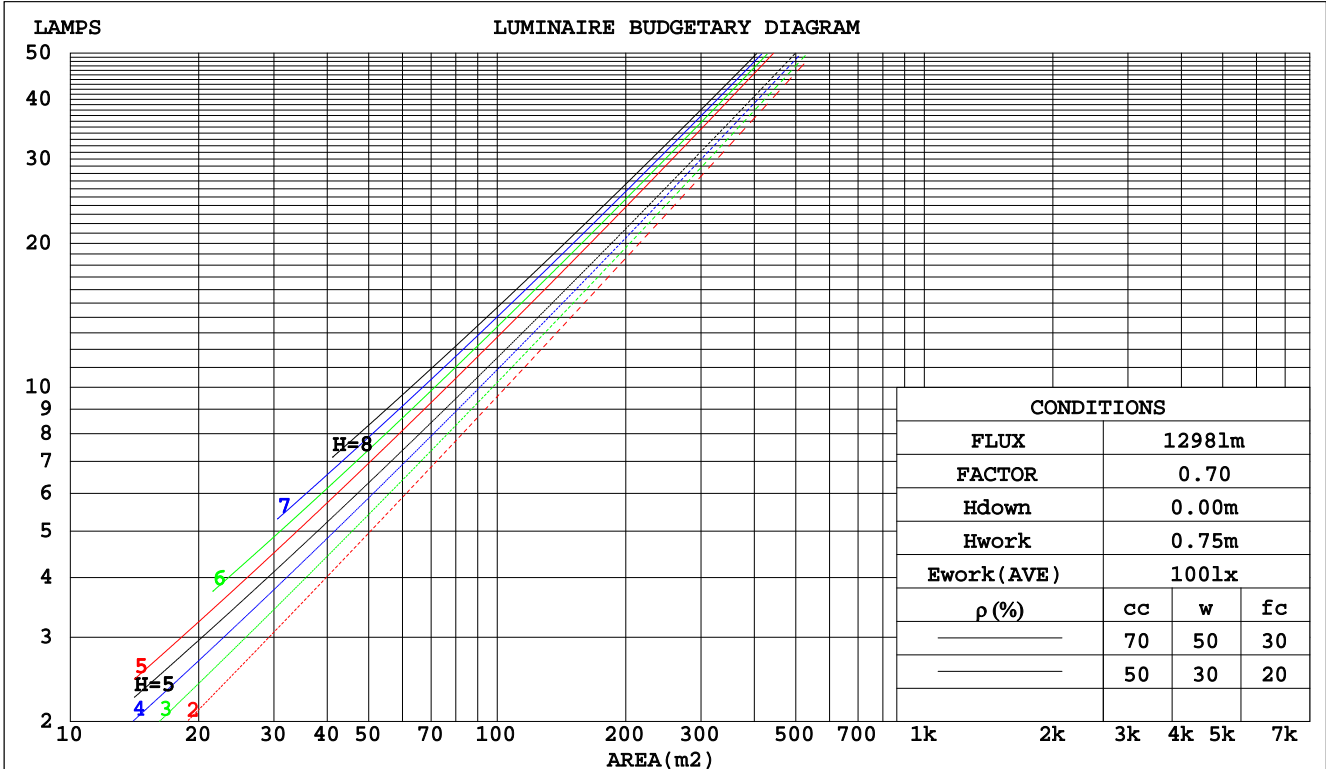
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Myles  
 Test Date: 2018-09-06

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:

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

Test:U:220.3V I:0.0942A P:19.67W PF:0.9543 Freq:49.90Hz Lamp Flux:1298.11x1 lm		
NAME: FF6-FS2-17W-930-40D	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L290mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																0
pfc																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	1.08	1.10	1.08	1.06	1.06	1.04	1.03	1.02	1.01	.00	.99	.98	.97	.95
2.0	1.06	1.02	.00	1.04	1.01	.98	1.01	.99	.96	.98	.96	.94	.95	.94	.92	.91
3.0	1.00	.96	.93	.99	.95	.92	.96	.93	.91	.94	.92	.89	.92	.90	.88	.87
4.0	.95	.91	.87	.94	.90	.87	.92	.89	.86	.90	.87	.85	.89	.86	.84	.83
5.0	.91	.86	.83	.90	.86	.82	.88	.84	.81	.87	.83	.81	.85	.82	.80	.79
6.0	.87	.82	.78	.86	.81	.78	.85	.81	.78	.83	.80	.77	.82	.79	.77	.75
7.0	.83	.78	.75	.82	.78	.75	.81	.77	.74	.80	.77	.74	.79	.76	.73	.72
8.0	.80	.75	.71	.79	.74	.71	.78	.74	.71	.77	.73	.71	.76	.73	.70	.69
9.0	.76	.72	.68	.76	.71	.68	.75	.71	.68	.74	.71	.68	.74	.70	.68	.67
10.0	.74	.69	.66	.73	.69	.66	.72	.68	.65	.72	.68	.65	.71	.68	.65	.64



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:

WEC AND CCEC

Test:U:220.3V I:0.0942A P:19.67W PF:0.9543 Freq:49.90Hz Lamp Flux:1298.11x1 lm		
NAME: FF6-FS2-17W-930-40D	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L290mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

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	.153	.087	.028	.146	.083	.027	.134	.077	.025	.122	.071	.023	.112	.065	.021	
2.0	.144	.079	.024	.138	.076	.023	.128	.071	.022	.119	.067	.021	.110	.062	.020	
3.0	.136	.072	.022	.131	.070	.021	.122	.066	.020	.114	.063	.019	.107	.059	.018	
4.0	.128	.067	.020	.124	.065	.019	.117	.062	.019	.110	.059	.018	.104	.056	.017	
5.0	.122	.062	.018	.118	.061	.018	.112	.058	.017	.106	.056	.017	.101	.054	.016	
6.0	.116	.058	.017	.113	.057	.016	.107	.055	.016	.102	.053	.016	.097	.051	.015	
7.0	.111	.055	.016	.108	.054	.015	.103	.052	.015	.099	.051	.015	.094	.049	.014	
8.0	.106	.052	.015	.104	.051	.014	.099	.050	.014	.095	.048	.014	.091	.047	.014	
9.0	.102	.049	.014	.100	.049	.014	.096	.047	.013	.092	.046	.013	.089	.045	.013	
10.0	.098	.047	.013	.096	.046	.013	.092	.045	.013	.089	.044	.013	.086	.043	.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	.126	.099	.093	.087	.057	.054	.051	.018	.017	.016	
2.0	.153	.133	.116	.131	.114	.100	.090	.079	.070	.052	.046	.041	.017	.015	.013	
3.0	.139	.113	.093	.119	.098	.081	.082	.068	.057	.047	.040	.033	.015	.013	.011	
4.0	.127	.098	.076	.109	.085	.066	.075	.059	.047	.043	.035	.028	.014	.011	.009	
5.0	.117	.086	.063	.101	.075	.055	.069	.052	.039	.040	.031	.023	.013	.010	.008	
6.0	.109	.077	.053	.094	.066	.046	.065	.046	.033	.038	.027	.019	.012	.009	.006	
7.0	.102	.069	.045	.088	.060	.039	.061	.042	.028	.035	.025	.017	.011	.008	.005	
8.0	.096	.062	.039	.083	.054	.034	.057	.038	.024	.033	.022	.014	.011	.007	.005	
9.0	.091	.057	.034	.078	.049	.029	.054	.035	.021	.032	.020	.012	.010	.007	.004	
10.0	.086	.052	.030	.074	.045	.026	.051	.032	.018	.030	.019	.011	.010	.006	.004	

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:

UGR(Unified Glare Rating) Table

Test:U:220.3V I:0.0942A P:19.67W PF:0.9543 Freq:49.90Hz Lamp Flux:1298.11x1 lm		
NAME: FF6-FS2-17W-930-40D	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L290mm*W45mm*H60mm	
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	8.5	9.3	8.7	9.4	9.6	8.4	9.2	8.6	9.4	9.5
3H	8.4	9.1	8.7	9.3	9.5	8.3	9.0	8.5	9.2	9.4
4H	8.3	9.0	8.6	9.2	9.4	8.2	8.9	8.5	9.1	9.3
6H	8.2	8.9	8.5	9.1	9.4	8.1	8.8	8.4	9.0	9.2
8H	8.2	8.8	8.5	9.1	9.3	8.1	8.7	8.4	8.9	9.2
12H	8.2	8.7	8.5	9.0	9.3	8.0	8.6	8.3	8.9	9.2
4H 2H	8.3	9.0	8.6	9.2	9.4	8.2	8.9	8.5	9.1	9.3
3H	8.2	8.8	8.5	9.1	9.3	8.1	8.7	8.4	8.9	9.2
4H	8.1	8.6	8.5	8.9	9.2	8.0	8.5	8.3	8.8	9.1
6H	8.0	8.5	8.4	8.8	9.2	7.9	8.4	8.3	8.7	9.0
8H	8.0	8.4	8.3	8.7	9.1	7.8	8.3	8.2	8.6	9.0
12H	7.9	8.3	8.3	8.7	9.1	7.8	8.2	8.2	8.6	8.9
8H 4H	8.0	8.4	8.3	8.7	9.1	7.8	8.3	8.2	8.6	9.0
6H	7.9	8.2	8.3	8.6	9.0	7.7	8.1	8.2	8.5	8.9
8H	7.8	8.1	8.2	8.5	9.0	7.7	8.0	8.1	8.4	8.8
12H	7.7	8.0	8.2	8.5	8.9	7.6	7.9	8.1	8.3	8.8
12H 4H	7.9	8.3	8.3	8.7	9.1	7.8	8.2	8.2	8.6	8.9
6H	7.8	8.1	8.2	8.5	9.0	7.7	8.0	8.1	8.4	8.8
8H	7.7	8.0	8.2	8.5	8.9	7.6	7.9	8.1	8.3	8.8
Variations with the observer position at spacings:										
S = 1.0H	+ 2.7 / - 5.2					+ 2.4 / - 5.9				
1.5H	+ 4.7 / - 4.3					+ 4.2 / - 4.3				
2.0H	+ 2.8 / - 2.5					+ 2.7 / - 2.4				

CIE Pub.117, 1298 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.9)

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:

UTILIZATION FACTORS TABLE

Test:U:220.3V I:0.0942A P:19.67W PF:0.9543 Freq:49.90Hz Lamp Flux:1298.11x1 lm		
NAME: FF6-FS2-17W-930-40D	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L290mm*W45mm*H60mm	
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	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	92	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			

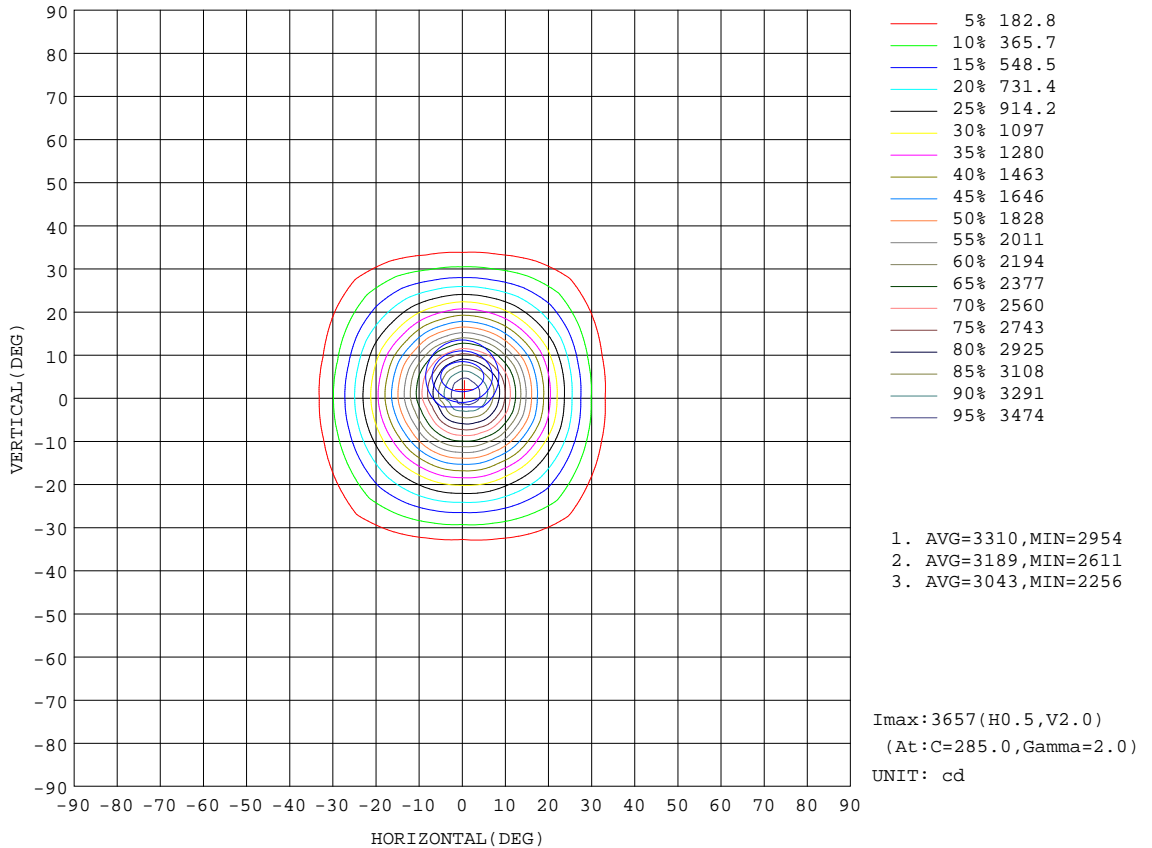
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Myles  
 Test Date:2018-09-06

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:56%  
 Test Distance:5.850m [K=1.0000]  
 Remarks:



ISOCANDELA DIAGRAM

Test:U:220.3V I:0.0942A P:19.67W PF:0.9543 Freq:49.90Hz Lamp Flux:1298.11x1 lm		
NAME: FF6-FS2-17W-930-40D	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L290mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

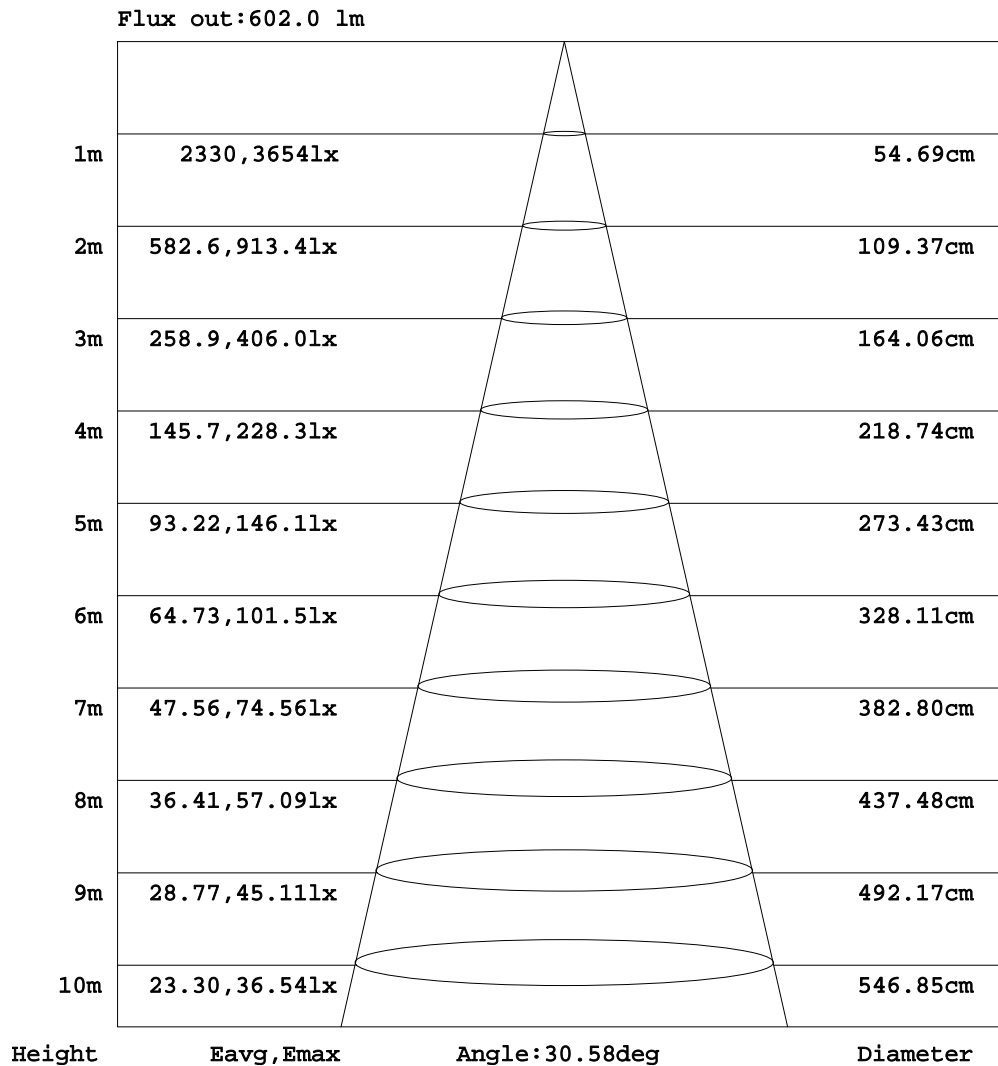


C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Myles  
 Test Date:2018-09-06

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:

**AAI Figure**

Test:U:220.3V I:0.0942A P:19.67W PF:0.9543 Freq:49.90Hz Lamp Flux:1298.11x1 lm		
NAME: FF6-FS2-17W-930-40D	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L290mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		



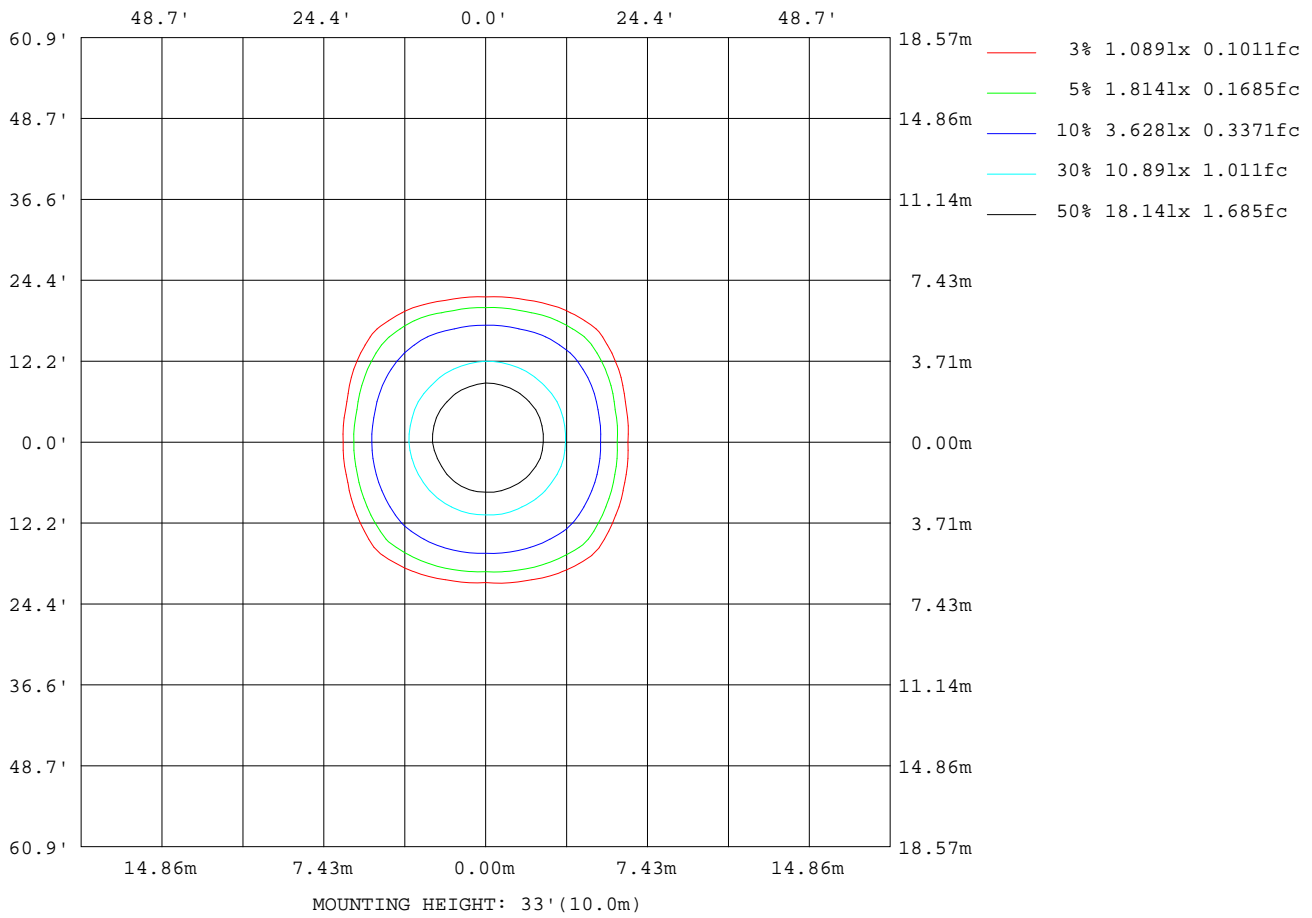
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators: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:

ISOLUX DIAGRAM

Test:U:220.3V I:0.0942A P:19.67W PF:0.9543 Freq:49.90Hz Lamp Flux:1298.11x1 lm		
NAME: FF6-FS2-17W-930-40D	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L290mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		



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:

LED Avg.L Report

Test:U:220.3V I:0.0942A P:19.67W PF:0.9543 Freq:49.90Hz Lamp Flux:1298.11x1 lm		
NAME: FF6-FS2-17W-930-40D	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L290mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

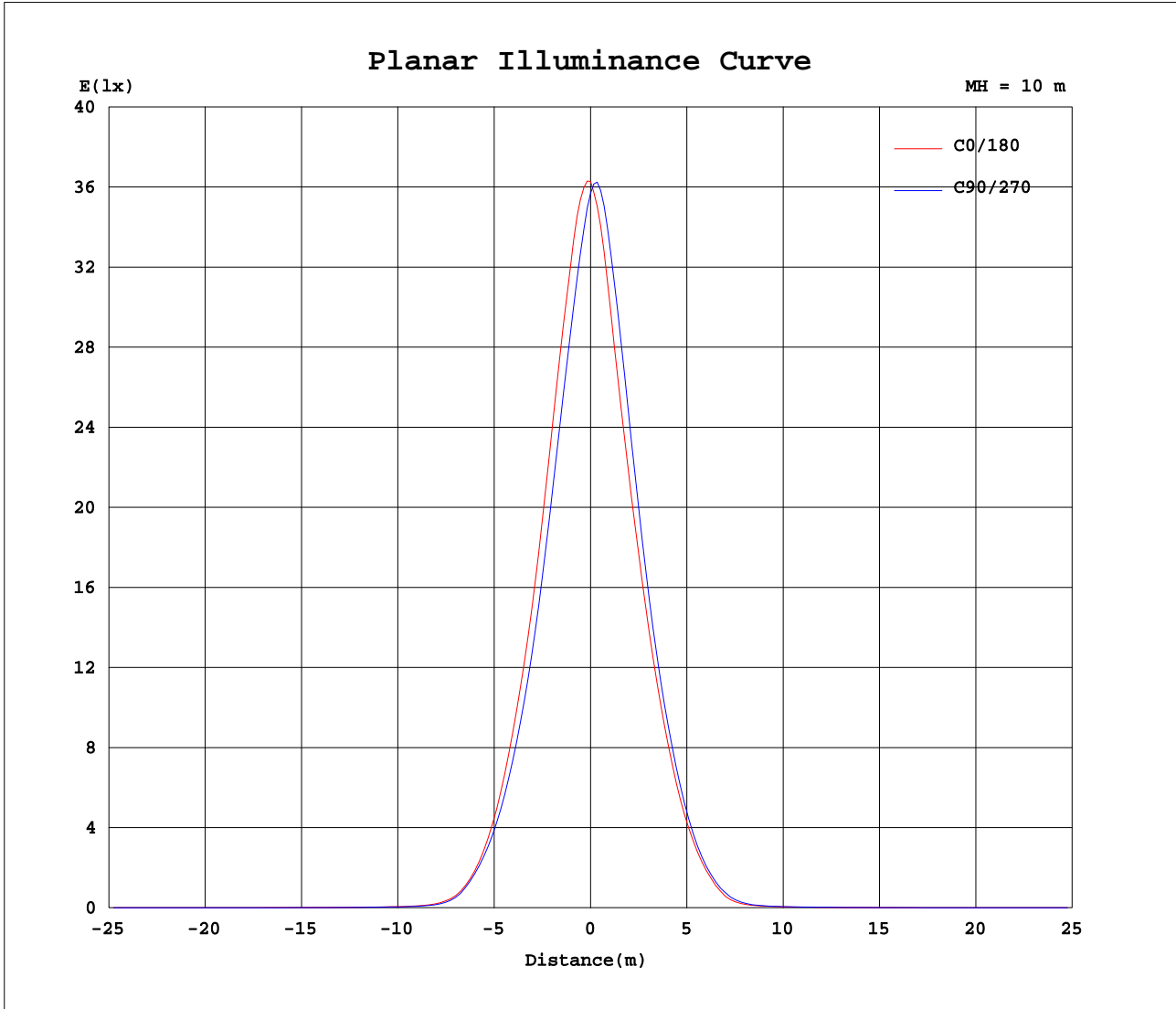
AvgL	cd/m2
L_0~180(65)av	563
L_0~180(75)av	73
L_0~180(85)av	42
L_90~270(65)av	548
L_90~270(75)av	96
L_90~270(85)av	46
L_45(65)av	545
L_45(75)av	67
L_45(85)av	49

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

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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:220.3V I:0.0942A P:19.67W PF:0.9543 Freq:49.90Hz Lamp Flux:1298.11x1 lm		
NAME: FF6-FS2-17W-930-40D	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L290mm*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	3628	3610	3588	3581	3572	3571	3569	3595	3585	3582	3549	3544	3628	3610	3588	3581	3572	3571	3569
5	3372	3319	3253	3194	3115	3077	3037	3036	3055	3055	3027	3038	3166	3208	3245	3287	3360	3390	3438
10	2723	2685	2596	2528	2439	2404	2367	2374	2364	2358	2348	2370	2459	2496	2565	2601	2687	2724	2792
15	1979	1958	1876	1820	1741	1719	1684	1697	1701	1708	1707	1753	1814	1843	1895	1908	1968	1988	2045
20	1326	1317	1255	1216	1160	1145	1117	1124	1133	1155	1161	1189	1225	1240	1286	1285	1322	1330	1367
25	775	790	781	772	730	690	659	681	710	730	722	718	726	743	798	810	836	814	817
30	358	382	419	461	407	354	325	347	392	428	389	361	356	369	431	481	473	409	396
35	111	132	170	224	180	126	94.5	114	166	208	162	115	105	121	186	235	205	146	137
40	33.6	36.0	48.7	84.1	49.4	31.6	26.3	29.8	43.3	82.1	43.7	30.3	28.3	32.1	51.4	89.1	54.8	37.5	35.4
45	17.4	17.4	19.8	25.1	18.7	15.1	14.3	14.1	17.1	23.5	17.6	14.6	14.9	15.5	19.7	26.1	20.9	18.0	17.7
50	12.4	11.9	11.3	11.6	10.5	10.4	9.94	9.77	10.1	10.7	10.1	10.3	10.7	10.9	11.2	12.5	12.0	12.3	12.7
55	8.11	7.74	7.22	6.83	6.54	6.32	6.11	5.99	6.24	6.24	6.30	6.46	6.72	6.88	7.06	7.29	7.88	7.98	8.26
60	5.24	5.00	4.80	4.60	4.45	4.27	4.09	4.09	4.12	4.11	4.10	4.23	4.52	4.57	4.69	4.77	5.09	5.21	5.32
65	3.43	3.27	3.10	2.94	2.73	2.60	2.44	2.45	2.48	2.47	2.46	2.56	2.78	2.87	2.96	3.10	3.39	3.53	3.60
70	1.84	1.67	1.53	1.39	1.20	1.07	0.94	0.98	1.05	1.05	1.03	1.09	1.24	1.34	1.42	1.56	1.86	2.03	2.03
75	0.40	0.27	0.11	0.07	0.09	0.07	0.10	0.07	0.09	0.07	0.10	0.09	0.09	0.12	0.17	0.18	0.29	0.40	0.55
80	0.08	0.06	0.07	0.06	0.07	0.06	0.07	0.06	0.07	0.06	0.08	0.06	0.05	0.07	0.05	0.07	0.05	0.08	0.06
85	0.06	0.05	0.06	0.06	0.06	0.06	0.07	0.06	0.07	0.06	0.06	0.06	0.04	0.05	0.03	0.05	0.04	0.05	0.04
90	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.03	0.03	0.03	0.03	0.04	0.04	0.04

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:220.3V I:0.0942A P:19.67W PF:0.9543 Freq:49.90Hz Lamp Flux:1298.11x1 lm		
NAME: FF6-FS2-17W-930-40D	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: L290mm*W45mm*H60mm	
MFR.: NEKO LIGHTING AG		

Table--2

UNIT: cd

C(DEC)	285	300	315	330	345														
0	3595	3585	3582	3549	3544														
5	3448	3424	3432	3431	3408														
10	2791	2793	2794	2805	2770														
15	2047	2056	2057	2064	2018														
20	1367	1383	1386	1406	1364														
25	830	871	872	872	816														
30	414	482	515	466	389														
35	151	207	248	193	131														
40	39.5	59.0	90.2	58.6	39.0														
45	18.6	22.2	28.6	22.7	19.1														
50	12.6	12.6	13.6	12.8	12.9														
55	8.19	8.15	8.16	8.38	8.48														
60	5.25	5.27	5.29	5.44	5.42														
65	3.52	3.54	3.51	3.58	3.62														
70	1.98	2.01	1.99	2.04	2.06														
75	0.50	0.55	0.57	0.61	0.60														
80	0.08	0.05	0.07	0.05	0.07														
85	0.05	0.04	0.05	0.04	0.05														
90	0.04	0.04	0.04	0.04	0.04														

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: