

LED Linear Light FL300-SL300-2S-8W-840-15D



Light Output Ratio:	100.0%	
Luminaire Power:	9.98 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	1.00	fine grid method.

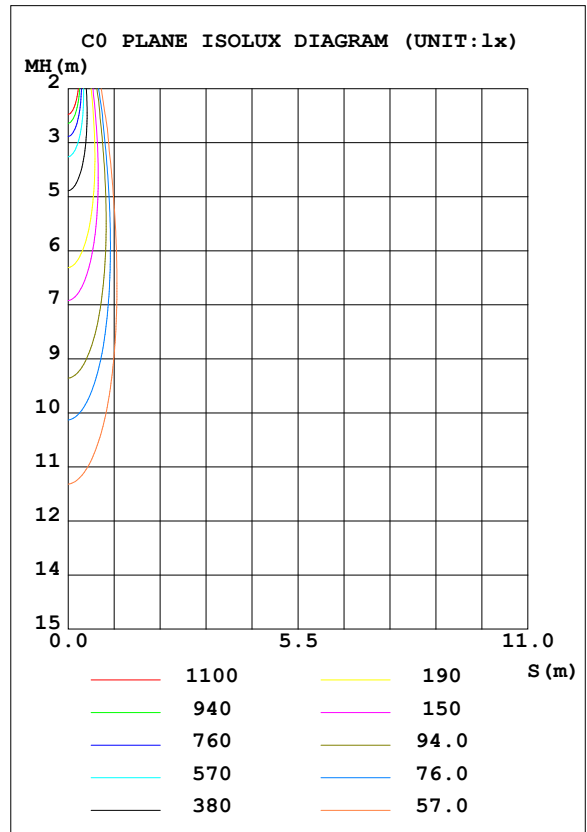
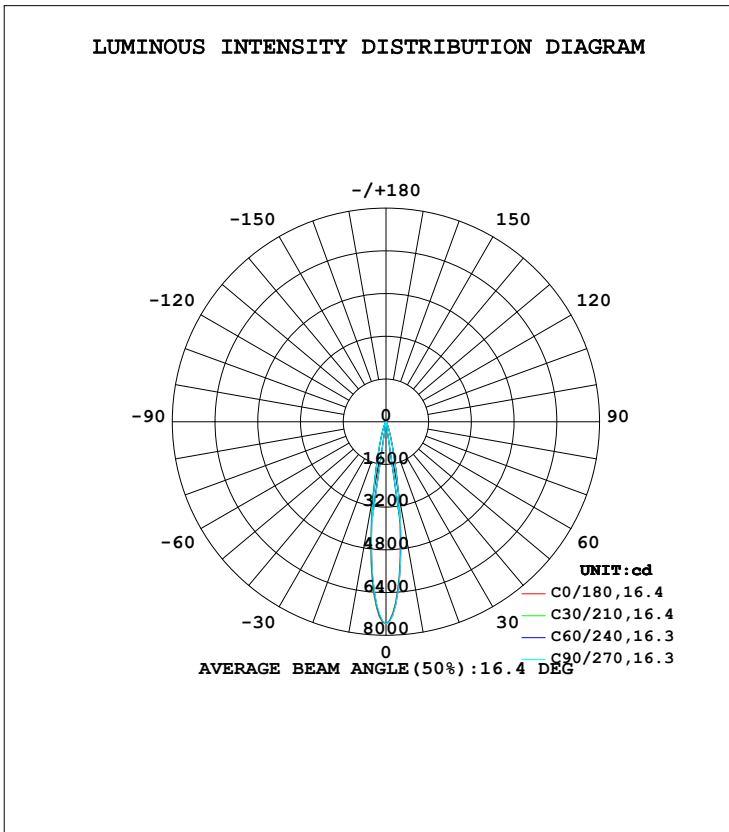
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Myles  
Test Date: 2019-03-14

$\gamma$  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:221.0V I:0.0490A P:9.980W PF:0.9040 Freq:49.90Hz Lamp Flux:870.6x1 lm		
NAME: FL300-SL300-2S-8W-840-15D	TYPE:Linear Light	SERIAL No.:
SPEC.:4000K	DIM.: φ31mm*H50mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 87.23 lm/W			
MODEL	OSRAM-4000K	I <sub>max</sub> (cd)	7563	S/MH (C0/180)	0.29
NOMINAL POWER (W)	10	LOR (%)	100.0	S/MH (C90/270)	0.28
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	870.60	η UP, DN (C0-180)	0.0,50.0
NOMINAL FLUX (lm)	870.6	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0,50.0
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



C Range: 0 - 360DEG  
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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	2615	2797	2701	2804	2804	2596	2611	2622	0- 10	450.2	450.2	51.7,51.7
20	360.3	374.2	358.9	384.7	375.6	391.2	388.2	384.6	10- 20	293.0	743.2	85.4,85.4
30	77.25	79.46	78.47	81.19	83.42	84.41	84.81	81.98	20- 30	84.64	827.9	95.1,95.1
40	24.46	24.76	24.55	26.20	26.99	28.05	27.94	26.06	30- 40	29.00	856.9	98.4,98.4
50	6.247	6.309	6.615	6.472	6.962	6.363	6.614	5.980	40- 50	10.55	867.4	99.6,99.6
60	0.8008	0.8092	0.9321	0.9403	1.046	0.8660	0.9200	0.8089	50- 60	2.812	870.2	100,100
70	0.1050	0.0982	0.1226	0.1070	0.1004	0.1072	0.0743	0.0941	60- 70	0.2870	870.5	100,100
80	0.0416	0.0306	0.0503	0.0306	0.0283	0.0372	0.0218	0.0328	70- 80	0.0629	870.6	100,100
90	0.0284	0.0262	0.0284	0.0284	0.0175	0.0175	0.0131	0.0153	80- 90	0.0280	870.6	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): 863.72 lm

%lum = 99.2%  
%lamp = 99.2%

Conical surface Flux(120deg): 870.22 lm

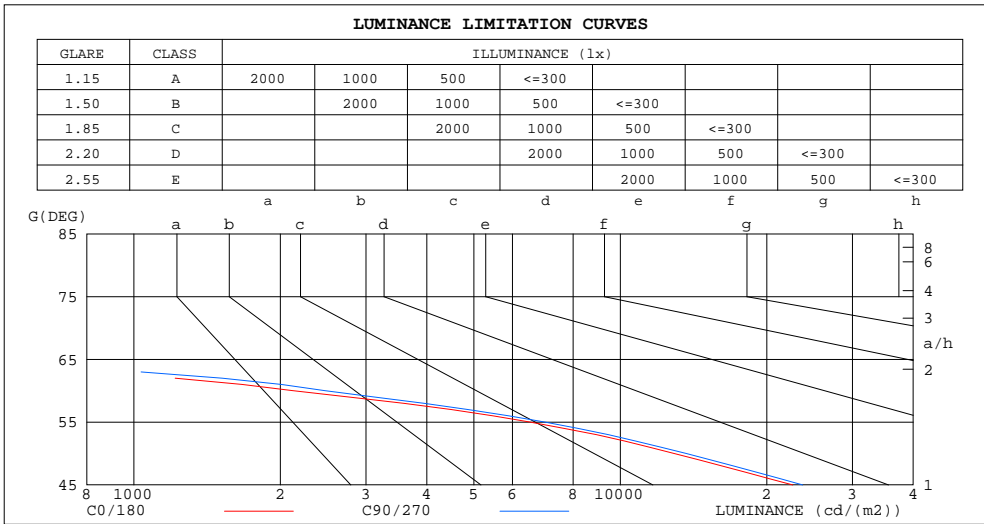
%lum = 100.0%  
%lamp = 100.0%

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$\gamma$  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:221.0V I:0.0490A P:9.980W PF:0.9040 Freq:49.90Hz Lamp Flux:870.6x1 lm		
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SPEC.:4000K	DIM.: φ31mm*H50mm	
MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	466	500
80	317	384
75	336	392
70	407	475
65	591	694
60	2123	2471
55	6518	6994
50	12884	13642
45	22611	23706

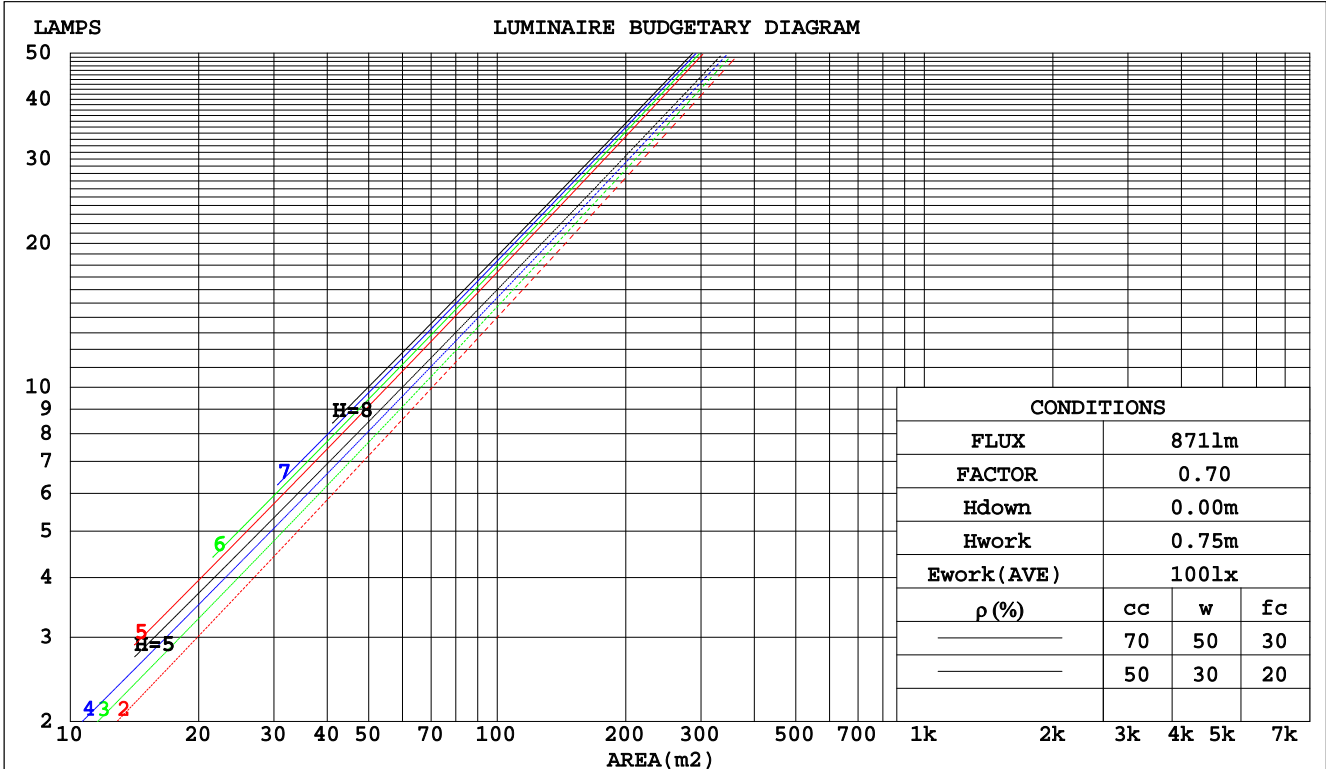
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**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

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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														
ρw																0														
ρfc	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	1.02	.99	1.04	1.01	.98	1.01	.99	.97	.99	.97	.95	.97	.95	.94	.93														
4.0	1.01	.98	.95	1.00	.97	.95	.98	.96	.94	.97	.94	.93	.95	.93	.92	.90														
5.0	.98	.95	.92	.98	.94	.92	.96	.93	.91	.94	.92	.90	.93	.91	.89	.88														
6.0	.96	.92	.89	.95	.92	.89	.94	.91	.88	.92	.90	.88	.91	.89	.87	.86														
7.0	.93	.90	.87	.93	.89	.87	.92	.89	.86	.91	.88	.86	.90	.87	.86	.85														
8.0	.91	.87	.85	.91	.87	.85	.90	.87	.84	.89	.86	.84	.88	.86	.84	.83														
9.0	.89	.85	.83	.89	.85	.83	.88	.85	.83	.87	.84	.82	.87	.84	.82	.81														
10.0	.87	.84	.81	.87	.84	.81	.86	.83	.81	.86	.83	.81	.85	.83	.81	.80														



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 γ Interval: 1.0DEG  
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WEC AND CCEC

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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	.126	.071	.023	.119	.068	.022	.107	.061	.020	.095	.055	.018	.085	.049	.016	
2.0	.115	.063	.019	.110	.061	.019	.100	.056	.017	.091	.051	.016	.082	.046	.015	
3.0	.107	.057	.017	.102	.055	.017	.094	.051	.015	.086	.047	.015	.079	.044	.014	
4.0	.099	.052	.015	.096	.050	.015	.089	.047	.014	.082	.044	.013	.076	.041	.013	
5.0	.093	.047	.014	.090	.046	.013	.084	.044	.013	.078	.041	.012	.073	.039	.012	
6.0	.088	.044	.013	.085	.043	.012	.080	.041	.012	.075	.039	.011	.071	.037	.011	
7.0	.083	.041	.012	.080	.040	.011	.076	.038	.011	.072	.037	.011	.068	.035	.010	
8.0	.078	.038	.011	.076	.038	.011	.073	.036	.010	.069	.035	.010	.066	.034	.010	
9.0	.075	.036	.010	.073	.035	.010	.069	.034	.010	.066	.033	.010	.063	.032	.009	
10.0	.071	.034	.009	.070	.034	.009	.067	.033	.009	.064	.032	.009	.061	.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	.042	.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	.054	.040	.030	.032	.024	.018	.010	.008	.006	
8.0	.085	.060	.042	.073	.052	.037	.050	.036	.026	.029	.021	.016	.009	.007	.005	
9.0	.079	.054	.037	.068	.047	.032	.047	.033	.023	.027	.019	.014	.009	.006	.005	
10.0	.074	.049	.032	.063	.042	.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:2019-03-14

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:0.0490A P:9.980W PF:0.9040 Freq:49.90Hz Lamp Flux:870.6x1 lm		
NAME: FL300-SL300-2S-8W-840-15D	TYPE:Linear Light	SERIAL No.:
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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	13.0	13.6	13.2	13.7	13.9	13.1	13.6	13.3	13.8	13.9
3H	12.9	13.4	13.1	13.6	13.8	12.9	13.5	13.2	13.7	13.8
4H	12.8	13.3	13.1	13.5	13.7	12.9	13.4	13.1	13.6	13.8
6H	12.7	13.2	13.0	13.4	13.7	12.8	13.3	13.1	13.5	13.7
8H	12.7	13.2	13.0	13.4	13.7	12.7	13.2	13.0	13.4	13.7
12H	12.6	13.1	12.9	13.4	13.6	12.7	13.1	13.0	13.4	13.7
4H 2H	12.8	13.4	13.1	13.6	13.8	12.9	13.4	13.1	13.6	13.8
3H	12.7	13.1	13.0	13.4	13.6	12.7	13.2	13.0	13.4	13.7
4H	12.6	13.0	12.9	13.3	13.6	12.6	13.0	12.9	13.3	13.6
6H	12.5	12.8	12.8	13.2	13.5	12.5	12.9	12.9	13.2	13.5
8H	12.4	12.8	12.8	13.1	13.5	12.5	12.8	12.8	13.1	13.5
12H	12.4	12.7	12.8	13.0	13.4	12.4	12.7	12.8	13.1	13.5
8H 4H	12.4	12.8	12.8	13.1	13.5	12.5	12.8	12.8	13.1	13.5
6H	12.3	12.6	12.7	13.0	13.4	12.3	12.6	12.8	13.0	13.4
8H	12.2	12.5	12.7	12.9	13.3	12.3	12.5	12.7	12.9	13.4
12H	12.2	12.4	12.6	12.8	13.3	12.2	12.4	12.7	12.9	13.3
12H 4H	12.4	12.7	12.8	13.0	13.4	12.4	12.7	12.8	13.1	13.5
6H	12.2	12.5	12.7	12.9	13.3	12.3	12.5	12.7	12.9	13.4
8H	12.2	12.4	12.6	12.8	13.3	12.2	12.4	12.7	12.9	13.3
Variations with the observer position at spacings:										
S = 1.0H	+ 2.7 / -10.3					+ 2.8 / - 9.7				
1.5H	+ 4.3 / - 7.3					+ 4.2 / - 6.7				
2.0H	+ 5.7 / -15.0					+ 5.6 / -15.0				

CIE Pub.117, 870.6 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.5)

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γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
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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	85	81	90	85	81	89	84	81	78
0.80	98	92	89	97	92	89	96	91	88	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	107	103	100	106	103	100	104	101	99	94
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	109	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			

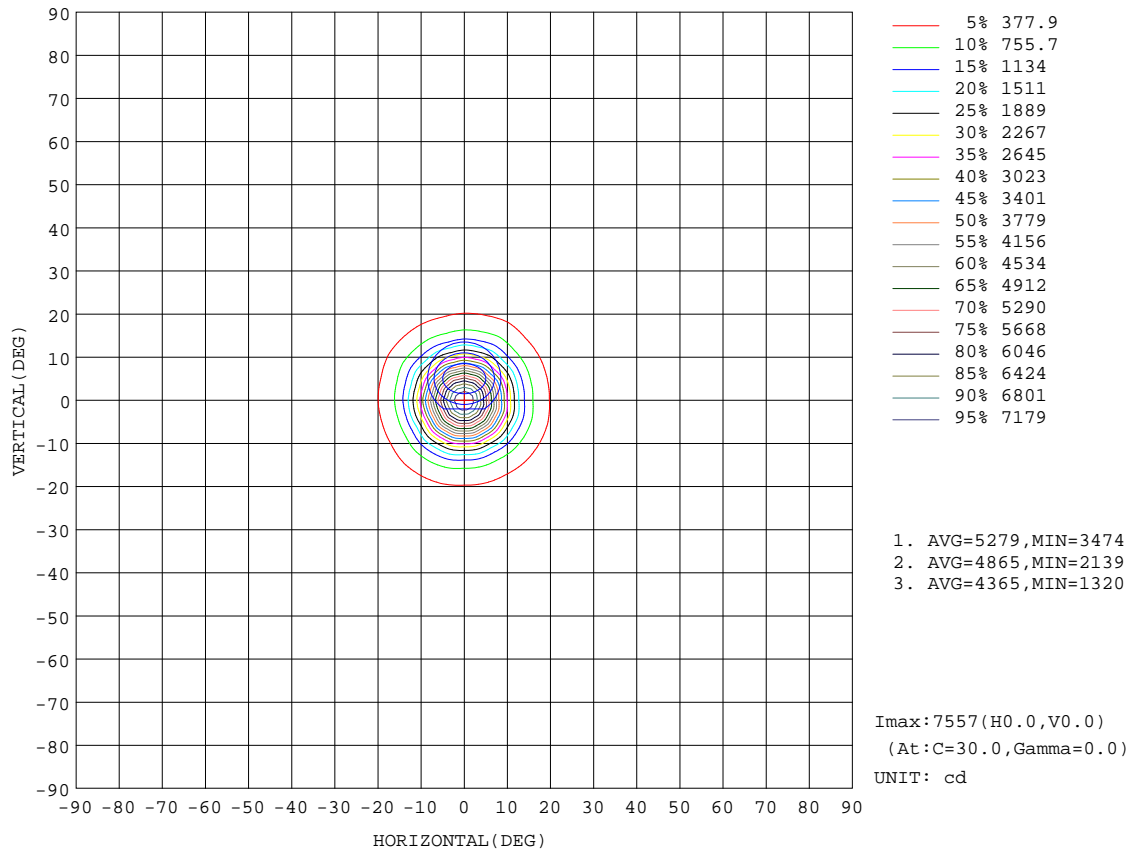
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**ISOCANDELA DIAGRAM**

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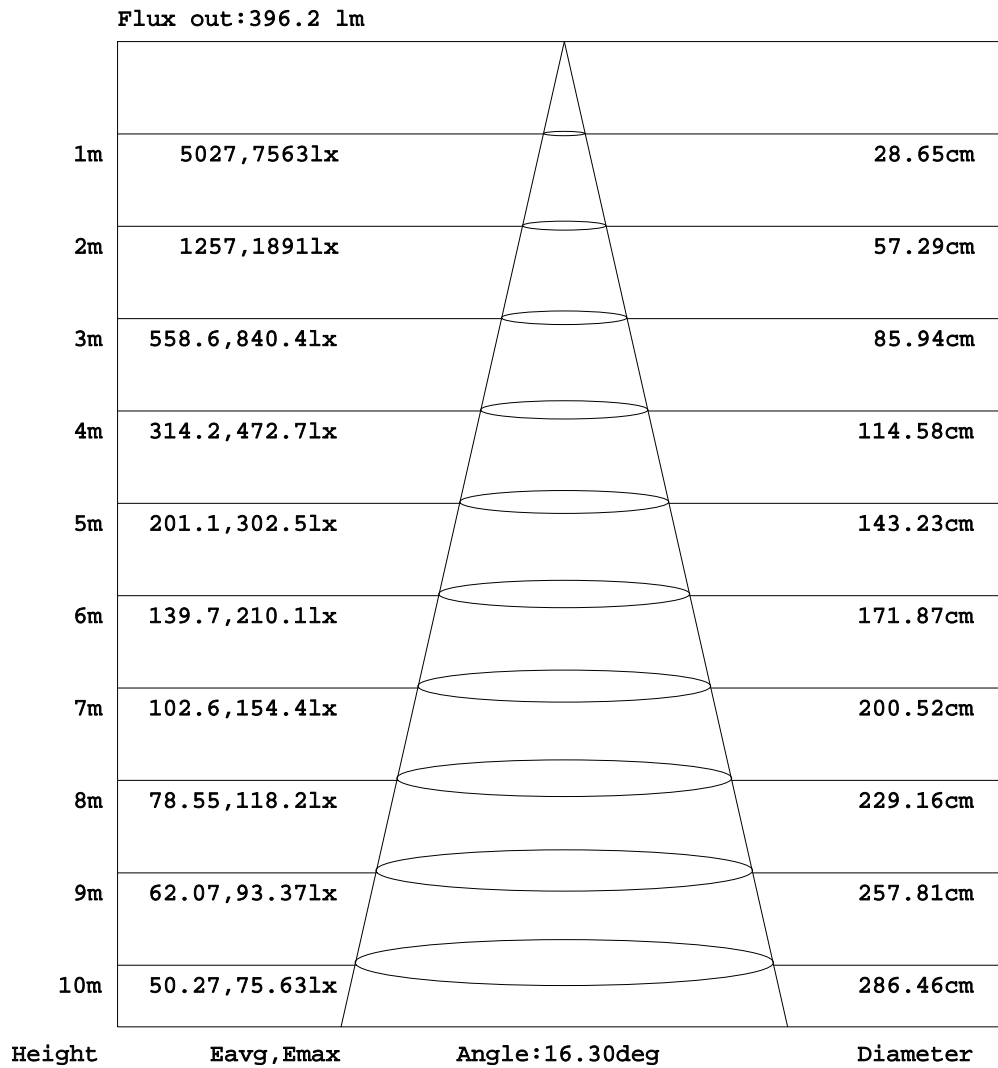


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**AAI Figure**

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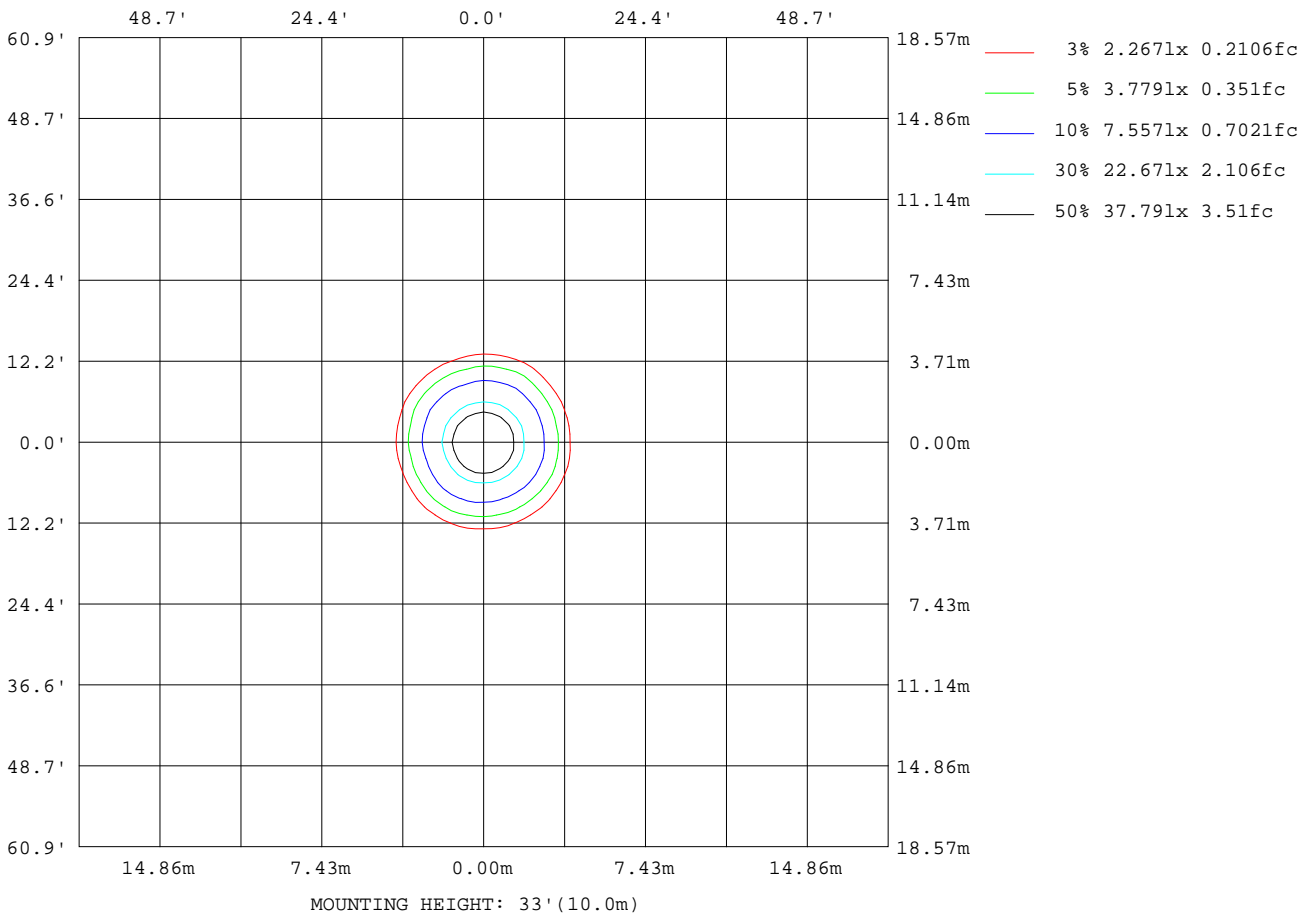
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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**ISOLUX DIAGRAM**

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LED Avg.L Report

Test:U:221.0V I:0.0490A P:9.980W PF:0.9040 Freq:49.90Hz Lamp Flux:870.6x1 lm		
NAME: FL300-SL300-2S-8W-840-15D	TYPE:Linear Light	SERIAL No.:
SPEC.:4000K	DIM.: φ31mm*H50mm	
MFR.: NEKO LIGHTING AG		

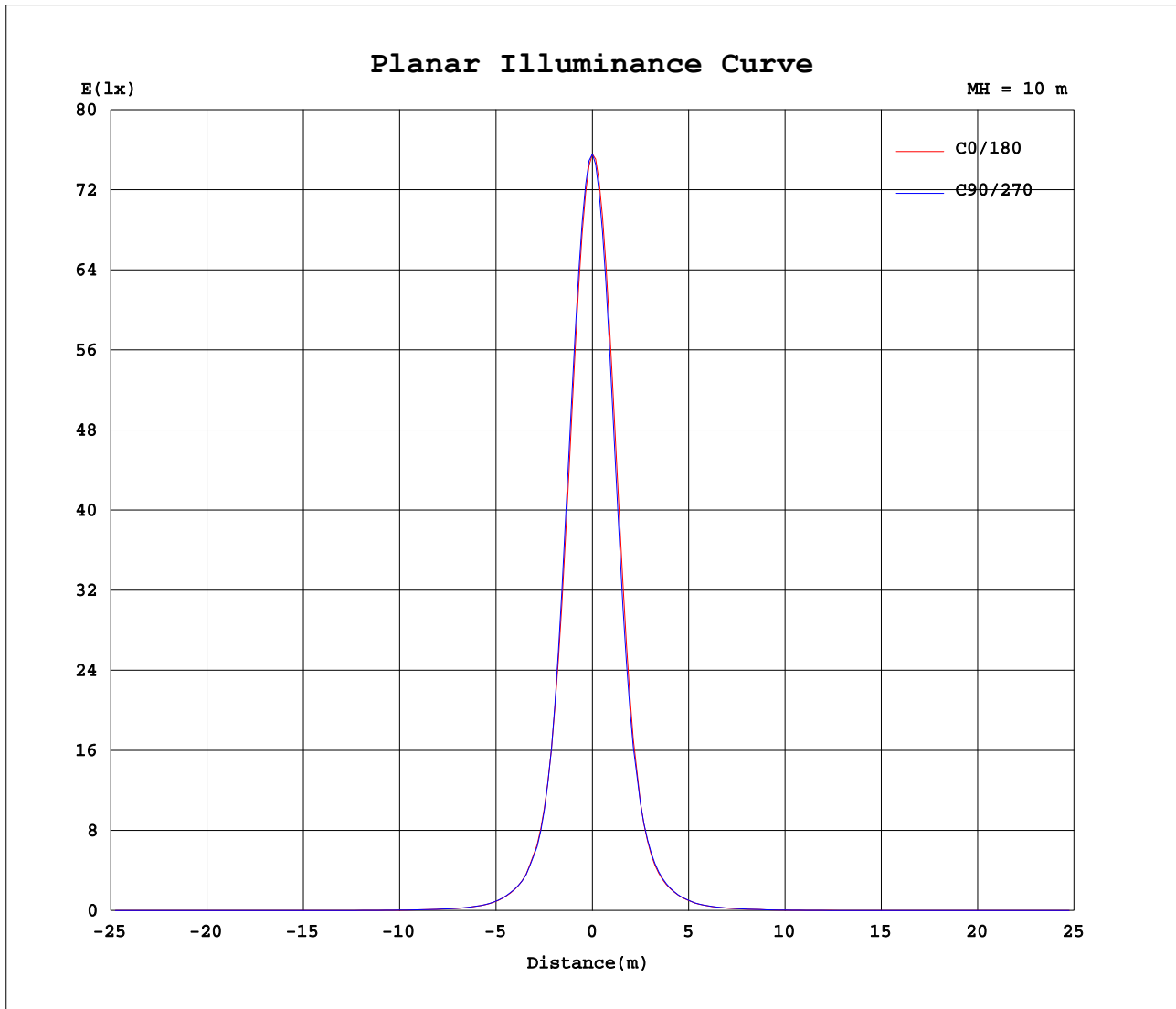
AvgL	cd/m2
L_0~180 (65) av	621
L_0~180 (75) av	291
L_0~180 (85) av	349
L_90~270 (65) av	614
L_90~270 (75) av	291
L_90~270 (85) av	350
L_45 (65) av	617
L_45 (75) av	288
L_45 (85) av	383

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Myles  
Test Date:2019-03-14

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: 2019-03-14

$\gamma$  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:221.0V I:0.0490A P:9.980W PF:0.9040 Freq:49.90Hz Lamp Flux:870.6x1 lm		
NAME: FL300-SL300-2S-8W-840-15D	TYPE:Linear Light	SERIAL No.:
SPEC.:4000K	DIM.: φ31mm*H50mm	
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	7557	7554	7563	7560	7562	7555	7559	7558	7557	7545	7544	7525	7557	7554	7563	7560	7562	7555	7559
5	5722	5867	5817	5937	5860	5963	5887	5973	5887	5957	5812	5848	5961	5815	5877	5723	5787	5656	5748
10	2615	2761	2717	2797	2694	2778	2701	2804	2741	2804	2654	2682	2804	2671	2742	2596	2636	2509	2611
15	907	969	959	949	889	903	884	948	964	975	902	907	960	957	1020	979	972	919	968
20	360	380	378	374	359	365	359	376	382	385	360	360	376	375	404	391	386	370	388
25	166	172	171	173	168	172	168	175	174	176	167	169	174	171	179	174	175	170	177
30	77.3	78.8	78.9	79.5	78.0	79.4	78.5	80.4	80.6	81.2	79.1	80.1	83.4	82.8	85.9	84.4	84.7	83.1	84.8
35	41.1	42.4	42.3	42.3	41.0	41.7	41.4	43.1	43.5	44.0	42.6	43.1	45.0	45.8	47.9	47.3	47.0	45.8	46.8
40	24.5	25.1	24.6	24.8	24.2	24.6	24.5	25.6	25.6	26.2	25.5	25.8	27.0	27.4	28.3	28.1	28.2	27.5	27.9
45	12.1	12.2	11.8	12.3	12.4	12.8	12.6	12.8	12.3	12.7	12.6	12.8	13.2	12.8	12.8	12.6	13.0	12.7	12.9
50	6.25	6.21	5.94	6.31	6.48	6.71	6.62	6.65	6.24	6.47	6.54	6.79	6.96	6.56	6.42	6.36	6.71	6.54	6.61
55	2.82	2.80	2.65	2.85	2.92	3.06	3.03	3.07	2.86	2.97	3.06	3.20	3.30	3.06	2.98	2.96	3.13	3.02	3.07
60	0.80	0.82	0.75	0.81	0.85	0.96	0.93	0.92	0.87	0.94	0.94	1.01	1.05	0.94	0.92	0.87	0.93	0.90	0.92
65	0.19	0.18	0.20	0.19	0.21	0.20	0.22	0.21	0.23	0.21	0.23	0.21	0.21	0.22	0.20	0.21	0.19	0.19	0.17
70	0.11	0.09	0.11	0.10	0.12	0.10	0.12	0.10	0.13	0.11	0.13	0.10	0.10	0.11	0.10	0.11	0.08	0.10	0.07
75	0.07	0.05	0.07	0.05	0.07	0.05	0.08	0.06	0.08	0.06	0.08	0.06	0.05	0.07	0.04	0.06	0.04	0.06	0.04
80	0.04	0.03	0.04	0.03	0.05	0.03	0.05	0.03	0.04	0.03	0.05	0.03	0.03	0.04	0.02	0.04	0.02	0.04	0.02
85	0.03	0.02	0.03	0.03	0.03	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.03	0.02	0.02	0.02	0.02	0.01
90	0.03	0.02	0.03	0.03	0.03	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.01	0.01

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Myles  
Test Date:2019-03-14

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:0.0490A P:9.980W PF:0.9040 Freq:49.90Hz Lamp Flux:870.6x1 lm		
NAME: FL300-SL300-2S-8W-840-15D	TYPE:Linear Light	SERIAL No.:
SPEC.:4000K	DIM.: φ31mm*H50mm	
MFR.: NEKO LIGHTING AG		

Table--2 UNIT: cd

C (DEG) \ γ (DEG)	285	300	315	330	345										
0	7558	7557	7545	7544	7525										
5	5662	5776	5702	5849	5782										
10	2564	2693	2622	2748	2678										
15	974	1038	977	978	932										
20	393	421	385	380	367										
25	175	183	173	174	169										
30	84.1	86.3	82.0	81.6	79.5										
35	46.5	47.4	44.7	43.6	42.0										
40	27.2	27.3	26.1	25.7	24.8										
45	12.3	12.1	11.9	12.4	12.2										
50	6.19	5.98	5.98	6.38	6.35										
55	2.86	2.76	2.75	2.95	2.93										
60	0.81	0.82	0.81	0.88	0.85										
65	0.19	0.16	0.18	0.16	0.19										
70	0.10	0.07	0.09	0.07	0.10										
75	0.05	0.03	0.05	0.03	0.06										
80	0.04	0.02	0.03	0.01	0.04										
85	0.02	0.02	0.02	0.01	0.02										
90	0.02	0.02	0.02	0.01	0.02										

C Range: 0 - 360DEG                      γ Range: 0 - 90DEG  
 C Interval: 15.0DEG                      γ Interval: 1.0DEG  
 Test Speed: HIGH                          Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Temperature:25.3DEG                      Humidity:56%  
 Operators:Myles                              Test Distance:5.850m [K=1.0000]  
 Test Date:2019-03-14                      Remarks: