

LED Linear Light FL300-SL300-2S-8W-830-15D



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.

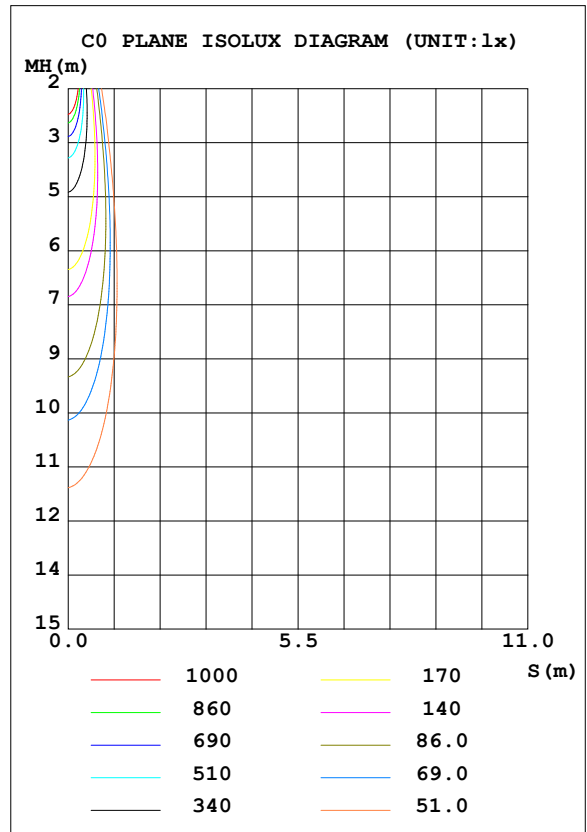
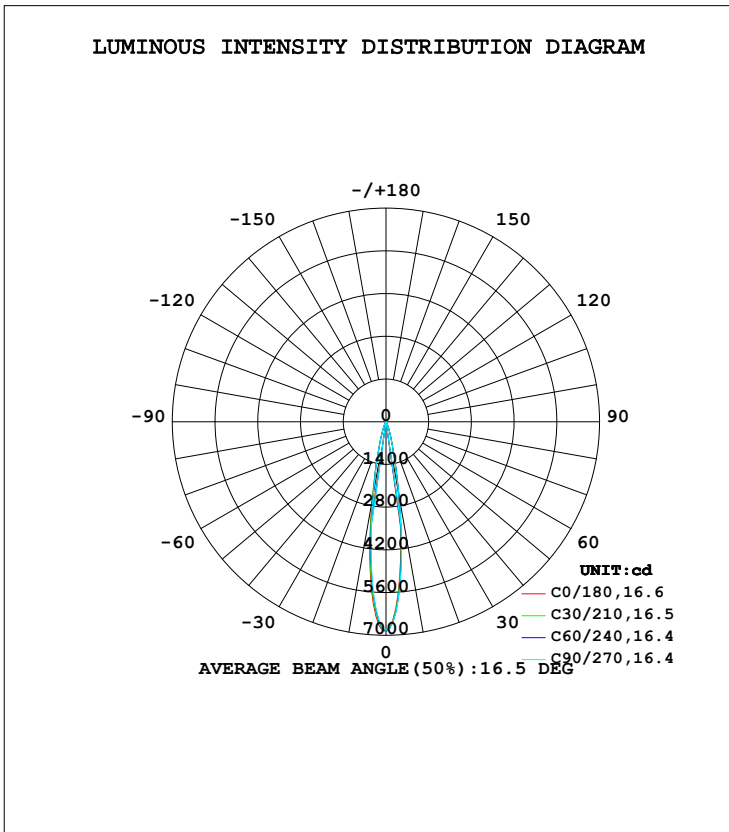
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Myles  
 Test Date: 2019-03-14

$\gamma$  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:0.0492A P:9.980W PF:0.9040 Freq:49.90Hz Lamp Flux:799.812x1 lm		
NAME: FL300-SL300-2S-8W-830-15D	TYPE:Linear Light	SERIAL No.:
SPEC.:3000K	DIM.: φ31mm*H50mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 80.14 lm/W			
MODEL	OSRAM-3000K	I <sub>max</sub> (cd)	6863	S/MH (C0/180)	0.30
NOMINAL POWER (W)	10	LOR (%)	100.0	S/MH (C90/270)	0.28
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	799.81	η UP, DN (C0-180)	0.0,49.8
NOMINAL FLUX (lm)	799.812	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0,50.2
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  
 C Interval: 15.0DEG  
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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:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	2352	2531	2451	2583	2657	2412	2402	2356	0- 10	409.1	409.1	51.2,51.2
20	332.2	347.1	333.0	357.8	363.6	368.9	361.4	353.7	10- 20	271.0	680.1	85,85
30	72.48	74.72	73.67	76.18	81.56	80.71	79.99	76.40	20- 30	79.23	759.4	94.9,94.9
40	23.06	23.39	23.15	24.63	26.29	26.89	26.40	24.44	30- 40	27.42	786.8	98.4,98.4
50	5.903	5.937	6.212	6.116	6.787	6.140	6.298	5.595	40- 50	10.02	796.8	99.6,99.6
60	0.7437	0.7438	0.8663	0.8814	1.038	0.8374	0.8698	0.7453	50- 60	2.659	799.5	100,100
70	0.0963	0.0895	0.1182	0.1005	0.0961	0.1029	0.0721	0.0875	60- 70	0.2709	799.7	100,100
80	0.0415	0.0306	0.0438	0.0306	0.0241	0.0350	0.0175	0.0306	70- 80	0.0589	799.8	100,100
90	0.0219	0.0262	0.0262	0.0219	0.0175	0.0175	0.0175	0.0153	80- 90	0.0255	799.8	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): 793.29 lm

%lum = 99.2%  
%lamp = 99.2%

Conical surface Flux(120deg): 799.46 lm

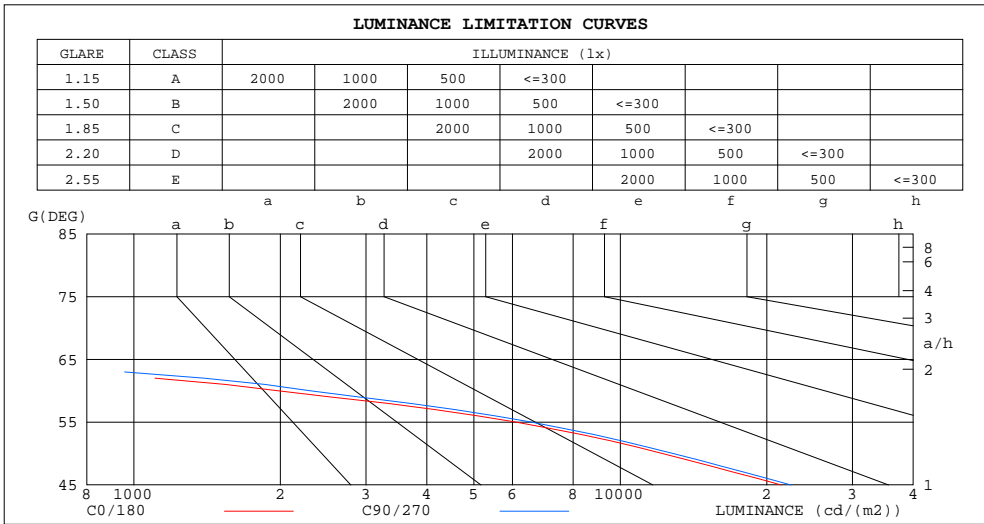
%lum = 100.0%  
%lamp = 100.0%

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:

**LUMINANCE LIMITATION CURVES**

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SPEC.:3000K	DIM.: φ31mm*H50mm	
MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	399	466
80	317	334
75	303	370
70	373	458
65	563	653
60	1972	2297
55	6093	6558
50	12174	12812
45	21408	22409

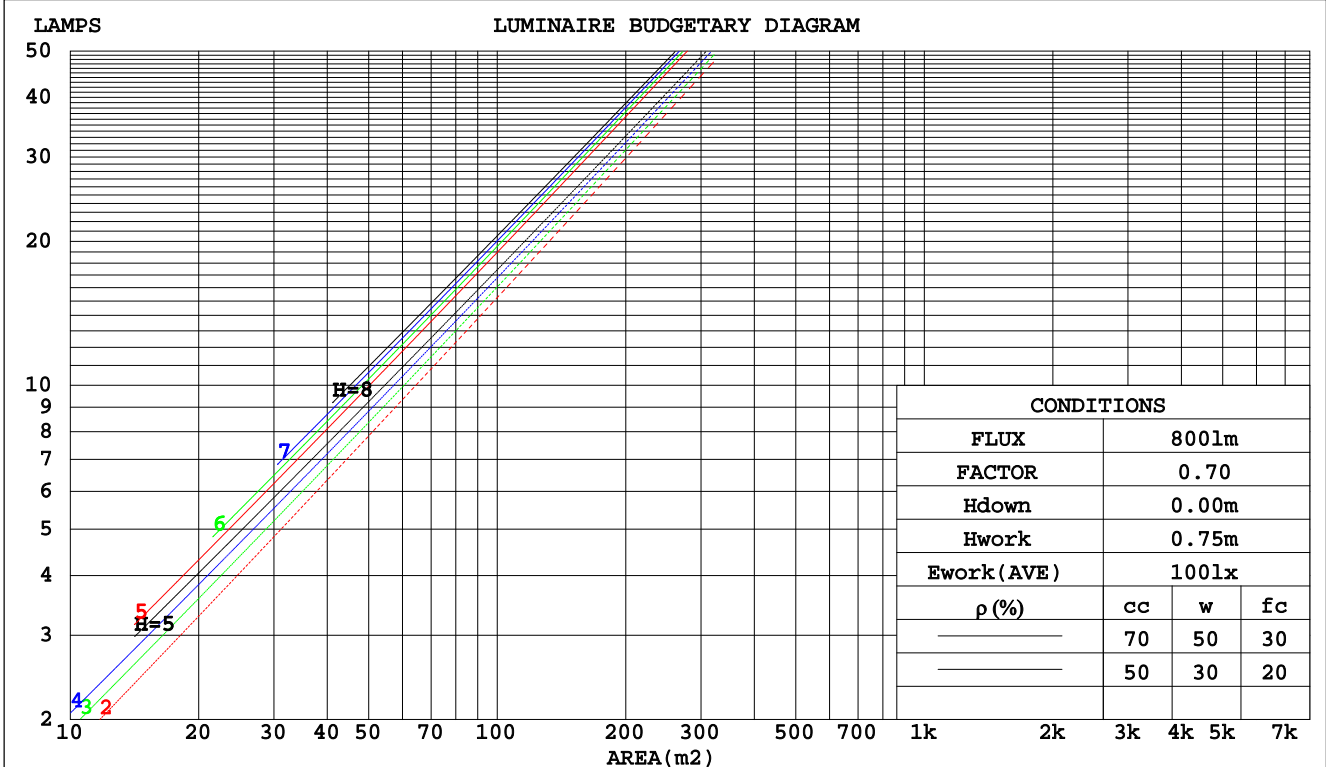
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**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

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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	1.12	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	1.01	.99	1.03	1.00	.98	1.01	.99	.97	.99	.97	.95	.97	.95	.94	.93
4.0	1.01	.98	.95	1.00	.97	.94	.98	.96	.93	.97	.94	.92	.95	.93	.91	.90
5.0	.98	.95	.92	.97	.94	.91	.96	.93	.91	.94	.92	.90	.93	.91	.89	.88
6.0	.95	.92	.89	.95	.91	.89	.94	.91	.88	.92	.90	.88	.91	.89	.87	.86
7.0	.93	.89	.87	.92	.89	.87	.91	.88	.86	.90	.88	.86	.89	.87	.85	.84
8.0	.91	.87	.85	.90	.87	.85	.89	.86	.84	.89	.86	.84	.88	.85	.84	.83
9.0	.89	.85	.83	.88	.85	.83	.88	.85	.82	.87	.84	.82	.86	.84	.82	.81
10.0	.87	.83	.81	.87	.83	.81	.86	.83	.81	.85	.83	.81	.85	.82	.80	.80



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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:

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	.072	.023	.120	.068	.022	.107	.062	.020	.096	.055	.018	.085	.050	.016	
2.0	.116	.064	.020	.111	.061	.019	.101	.056	.017	.091	.051	.016	.083	.047	.015	
3.0	.107	.057	.017	.103	.055	.017	.095	.051	.016	.087	.048	.015	.080	.044	.014	
4.0	.100	.052	.015	.096	.050	.015	.089	.047	.014	.083	.044	.013	.077	.042	.013	
5.0	.094	.048	.014	.090	.046	.014	.085	.044	.013	.079	.042	.012	.074	.039	.012	
6.0	.088	.044	.013	.085	.043	.012	.080	.041	.012	.076	.039	.012	.071	.037	.011	
7.0	.083	.041	.012	.081	.040	.011	.076	.039	.011	.072	.037	.011	.069	.036	.010	
8.0	.079	.039	.011	.077	.038	.011	.073	.037	.010	.069	.035	.010	.066	.034	.010	
9.0	.075	.036	.010	.073	.036	.010	.070	.035	.010	.067	.033	.010	.064	.032	.009	
10.0	.072	.034	.010	.070	.034	.009	.067	.033	.009	.064	.032	.009	.062	.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	.065	.051	.041	.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	.055	.040	.030	.032	.024	.018	.010	.008	.006	
8.0	.085	.060	.042	.073	.052	.037	.051	.036	.026	.029	.021	.016	.010	.007	.005	
9.0	.079	.054	.037	.068	.047	.032	.047	.033	.023	.027	.019	.014	.009	.006	.005	
10.0	.074	.049	.032	.064	.043	.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:0.0492A P:9.980W PF:0.9040 Freq:49.90Hz Lamp Flux:799.812x1 lm		
NAME: FL300-SL300-2S-8W-830-15D	TYPE:Linear Light	SERIAL No.:
SPEC.:3000K	DIM.: φ31mm*H50mm	
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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	13.2	13.8	13.4	13.9	14.1	13.3	13.8	13.5	14.0	14.1
3H	13.0	13.6	13.3	13.8	13.9	13.1	13.7	13.4	13.9	14.0
4H	13.0	13.5	13.2	13.7	13.9	13.1	13.6	13.3	13.8	14.0
6H	12.9	13.4	13.2	13.6	13.8	13.0	13.5	13.2	13.7	13.9
8H	12.8	13.3	13.1	13.6	13.8	12.9	13.4	13.2	13.6	13.9
12H	12.8	13.3	13.1	13.5	13.8	12.9	13.3	13.2	13.6	13.9
4H 2H	13.0	13.5	13.2	13.7	13.9	13.1	13.6	13.3	13.8	14.0
3H	12.8	13.3	13.1	13.5	13.8	12.9	13.4	13.2	13.6	13.9
4H	12.7	13.1	13.1	13.4	13.7	12.8	13.2	13.1	13.5	13.8
6H	12.6	13.0	13.0	13.3	13.7	12.7	13.1	13.1	13.4	13.7
8H	12.6	12.9	12.9	13.3	13.6	12.6	13.0	13.0	13.3	13.7
12H	12.5	12.8	12.9	13.2	13.6	12.6	12.9	13.0	13.3	13.7
8H 4H	12.6	12.9	12.9	13.3	13.6	12.6	13.0	13.0	13.3	13.7
6H	12.4	12.7	12.9	13.1	13.5	12.5	12.8	13.0	13.2	13.6
8H	12.4	12.6	12.8	13.1	13.5	12.5	12.7	12.9	13.1	13.6
12H	12.3	12.5	12.8	13.0	13.5	12.4	12.6	12.9	13.1	13.5
12H 4H	12.5	12.8	12.9	13.2	13.6	12.6	12.9	13.0	13.3	13.7
6H	12.4	12.6	12.8	13.1	13.5	12.5	12.7	12.9	13.1	13.6
8H	12.3	12.5	12.8	13.0	13.5	12.4	12.6	12.9	13.1	13.5
Variations with the observer position at spacings:										
S = 1.0H	+ 2.8 / -10.5					+ 2.8 / - 9.8				
1.5H	+ 4.3 / - 7.4					+ 4.2 / - 6.8				
2.0H	+ 5.8 / -15.0					+ 5.6 / -14.8				

CIE Pub.117, 799.8 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.8)

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:

UTILIZATION FACTORS TABLE

Test:U:221.0V I:0.0492A P:9.980W PF:0.9040 Freq:49.90Hz Lamp Flux:799.812x1 lm		
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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	102	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			

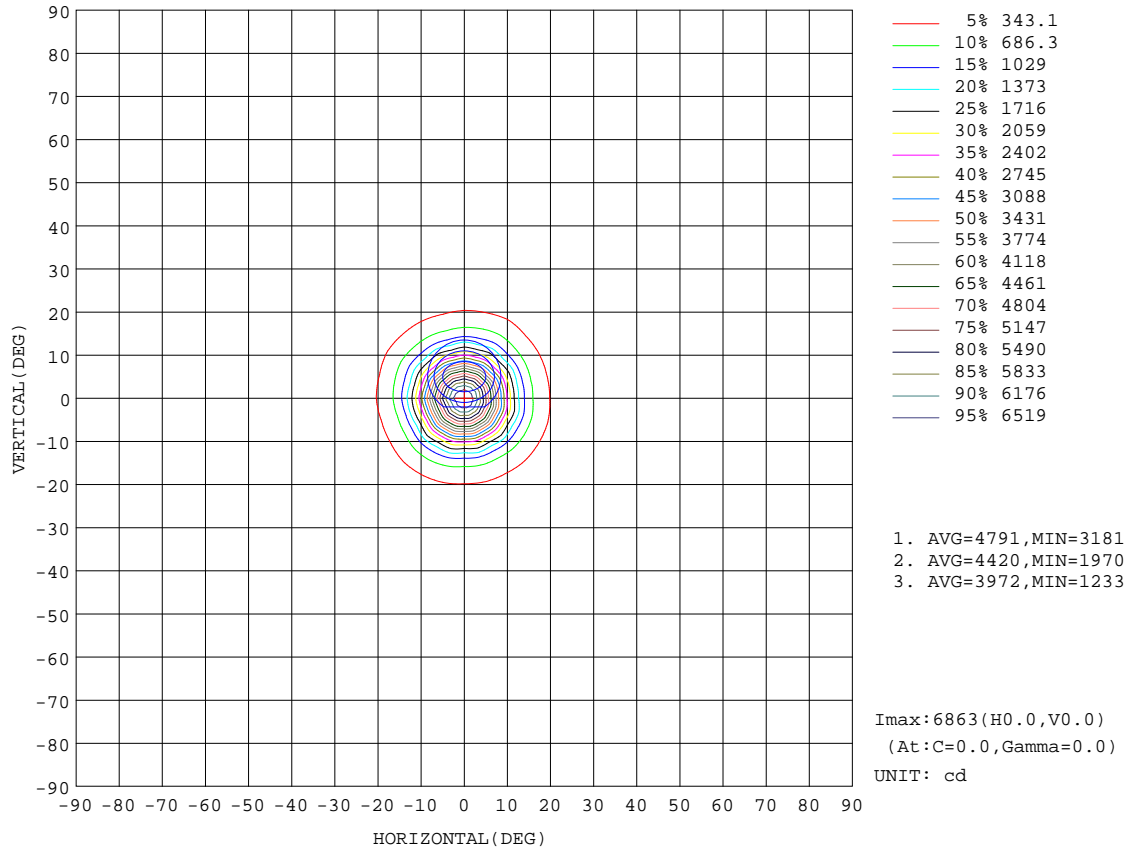
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**ISOCANDELA DIAGRAM**

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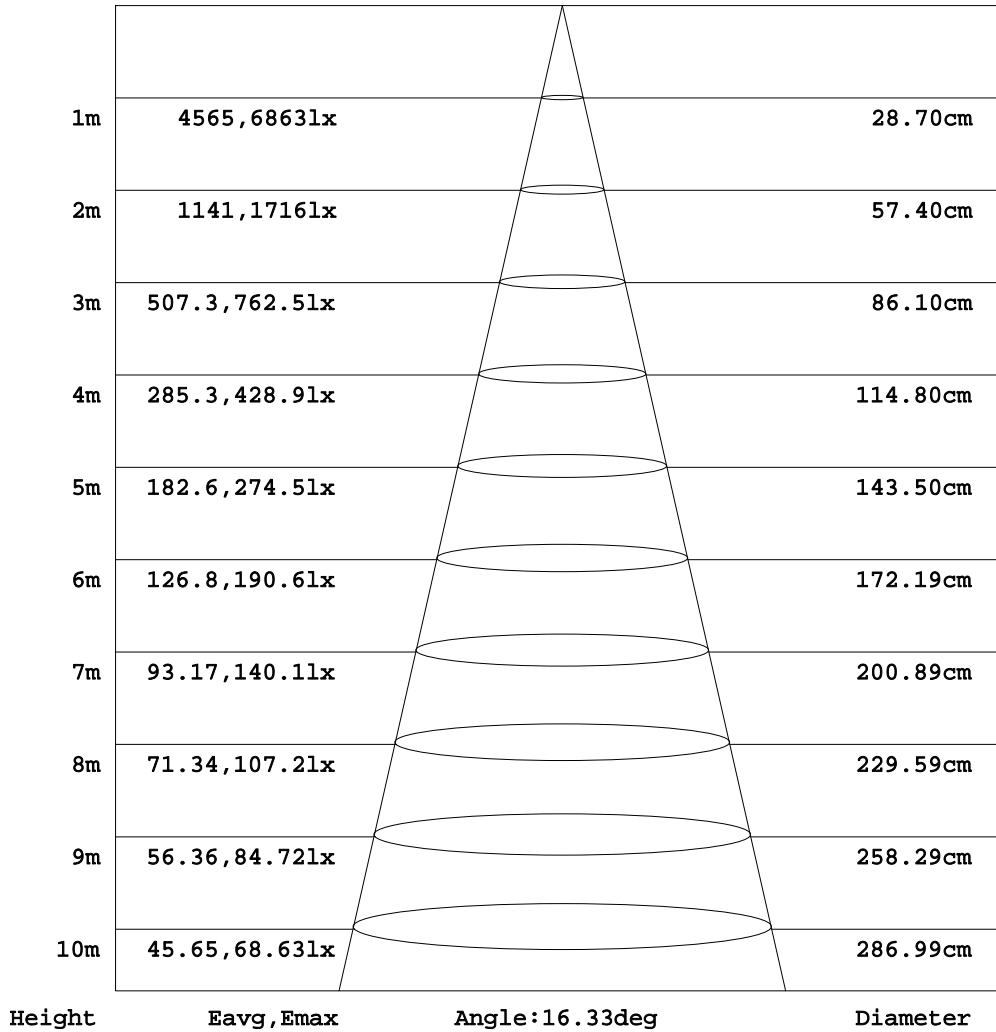
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**AAI Figure**

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SPEC.:3000K	DIM.: φ31mm*H50mm	
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Flux out:359.8 lm



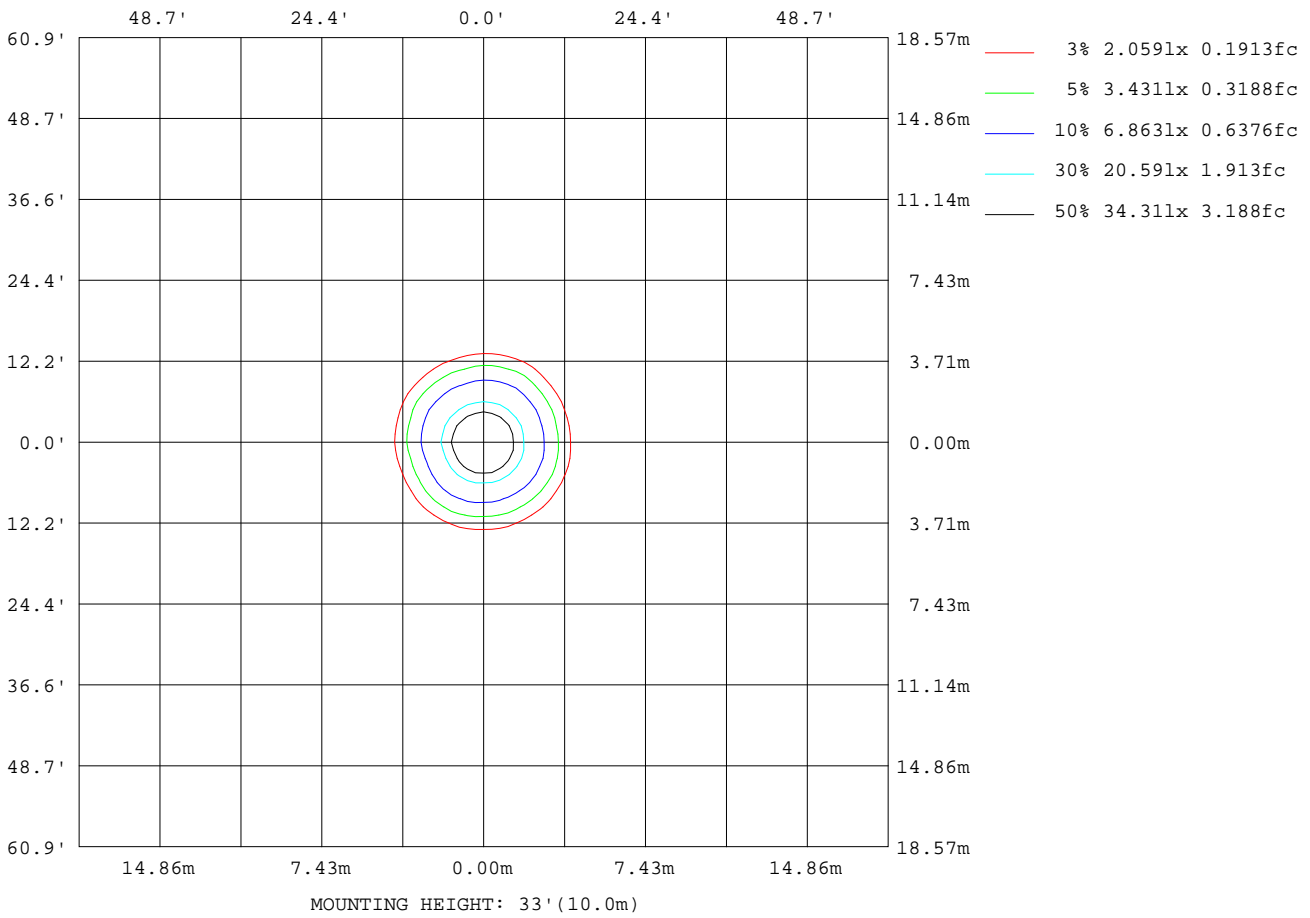
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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**ISOLUX DIAGRAM**

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**LED Avg.L Report**

Test:U:221.0V I:0.0492A P:9.980W PF:0.9040 Freq:49.90Hz Lamp Flux:799.812x1 lm		
NAME: FL300-SL300-2S-8W-830-15D	TYPE:Linear Light	SERIAL No.:
SPEC.:3000K	DIM.: φ31mm*H50mm	
MFR.: NEKO LIGHTING AG		

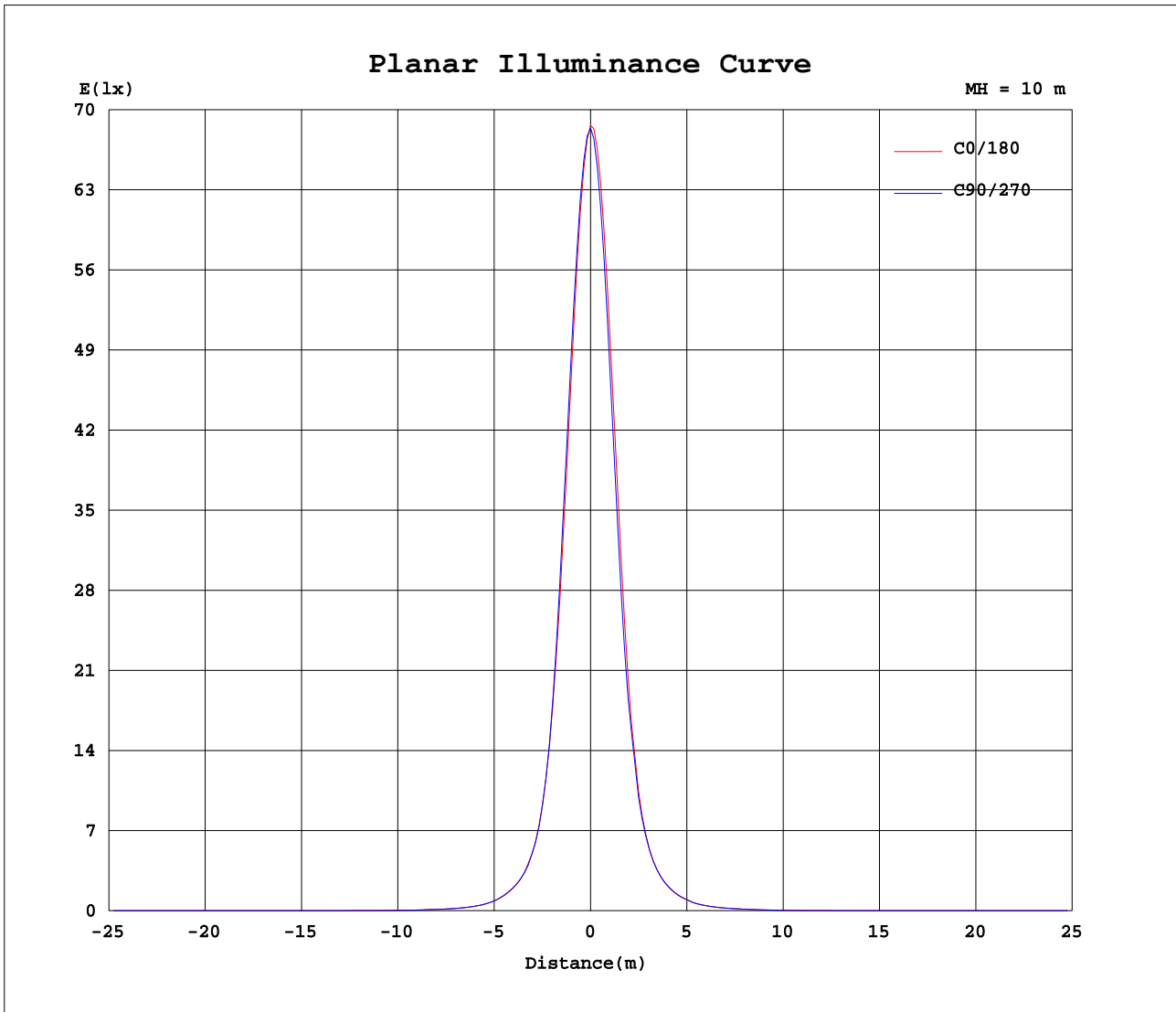
AvgL	cd/m2
L_0~180 (65) av	607
L_0~180 (75) av	280
L_0~180 (85) av	333
L_90~270 (65) av	580
L_90~270 (75) av	269
L_90~270 (85) av	366
L_45 (65) av	585
L_45 (75) av	272
L_45 (85) av	333

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:0.0492A P:9.980W PF:0.9040 Freq:49.90Hz Lamp Flux:799.812x1 lm		
NAME: FL300-SL300-2S-8W-830-15D	TYPE:Linear Light	SERIAL No.:
SPEC.:3000K	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	6863	6856	6848	6851	6853	6842	6839	6830	6825	6811	6811	6796	6863	6856	6848	6851	6853	6842	6839
5	5141	5281	5224	5362	5310	5409	5324	5422	5352	5419	5294	5331	5511	5356	5395	5234	5272	5139	5224
10	2352	2481	2434	2531	2447	2529	2451	2575	2519	2583	2445	2479	2657	2525	2576	2412	2434	2304	2402
15	823	879	867	871	820	834	813	875	892	904	838	842	928	917	975	915	905	849	895
20	332	349	346	347	334	340	333	349	355	358	335	335	364	362	390	369	361	345	361
25	154	160	158	162	157	161	157	163	162	164	156	158	170	166	173	165	165	159	166
30	72.5	73.8	73.6	74.7	73.5	74.8	73.7	75.4	75.6	76.2	74.3	75.3	81.6	80.7	83.6	80.7	80.3	78.5	80.0
35	38.8	39.9	39.6	40.0	38.9	39.5	39.1	40.5	40.9	41.4	40.0	40.6	43.9	44.5	46.6	45.3	44.7	43.3	44.2
40	23.1	23.6	23.1	23.4	23.0	23.3	23.2	24.0	24.1	24.6	24.0	24.3	26.3	26.6	27.6	26.9	26.8	26.0	26.4
45	11.4	11.5	11.1	11.6	11.8	12.1	12.0	12.1	11.7	12.0	11.9	12.1	13.0	12.5	12.5	12.1	12.5	12.1	12.3
50	5.90	5.86	5.60	5.94	6.12	6.33	6.21	6.26	5.89	6.12	6.18	6.41	6.79	6.38	6.25	6.14	6.42	6.23	6.30
55	2.64	2.60	2.47	2.66	2.74	2.87	2.84	2.88	2.69	2.79	2.89	3.02	3.24	2.99	2.92	2.85	2.99	2.86	2.92
60	0.74	0.76	0.69	0.74	0.79	0.90	0.87	0.86	0.81	0.88	0.89	0.96	1.04	0.93	0.91	0.84	0.89	0.85	0.87
65	0.18	0.16	0.19	0.17	0.20	0.19	0.21	0.19	0.21	0.20	0.21	0.20	0.21	0.22	0.20	0.20	0.17	0.19	0.16
70	0.10	0.08	0.11	0.09	0.11	0.09	0.12	0.10	0.12	0.10	0.12	0.10	0.10	0.11	0.09	0.10	0.08	0.09	0.07
75	0.06	0.04	0.06	0.04	0.07	0.05	0.07	0.05	0.07	0.06	0.07	0.05	0.05	0.06	0.04	0.06	0.03	0.05	0.03
80	0.04	0.03	0.04	0.03	0.04	0.03	0.04	0.03	0.05	0.03	0.05	0.03	0.02	0.04	0.02	0.04	0.02	0.03	0.02
85	0.03	0.02	0.03	0.02	0.03	0.02	0.03	0.03	0.03	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.02
90	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.02

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:0.0492A P:9.980W PF:0.9040 Freq:49.90Hz Lamp Flux:799.812x1 lm		
NAME: FL300-SL300-2S-8W-830-15D	TYPE:Linear Light	SERIAL No.:
SPEC.:3000K	DIM.: φ31mm*H50mm	
MFR.: NEKO LIGHTING AG		

Table--2

UNIT: cd

C (DEG) \ γ (DEG)	285	300	315	330	345															
0	6830	6825	6811	6811	6796															
5	5121	5209	5119	5248	5181															
10	2332	2431	2356	2453	2377															
15	898	949	887	882	835															
20	366	389	354	347	333															
25	165	170	160	159	153															
30	79.4	81.0	76.4	75.5	72.9															
35	44.0	44.7	41.8	40.5	38.8															
40	25.8	25.7	24.4	23.9	23.0															
45	11.6	11.4	11.2	11.5	11.3															
50	5.87	5.63	5.59	5.92	5.87															
55	2.71	2.59	2.56	2.73	2.68															
60	0.76	0.76	0.75	0.80	0.77															
65	0.17	0.15	0.17	0.15	0.17															
70	0.09	0.07	0.09	0.07	0.09															
75	0.05	0.03	0.05	0.03	0.05															
80	0.03	0.01	0.03	0.02	0.03															
85	0.02	0.01	0.02	0.02	0.02															
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: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: