

LED Linear Light FL300-SL300-2S-8W-830-55D



Light Output Ratio:	100.0%	
Luminaire Power:	9.98 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.90	fine grid method.

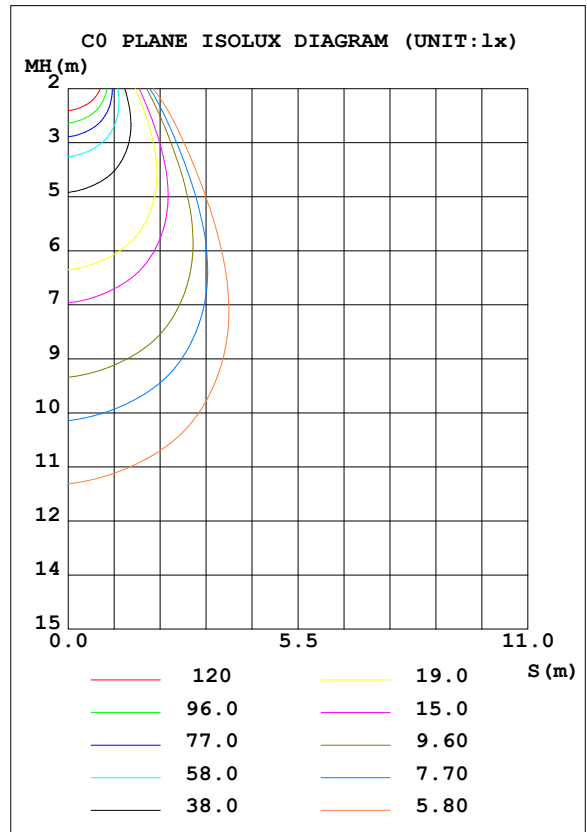
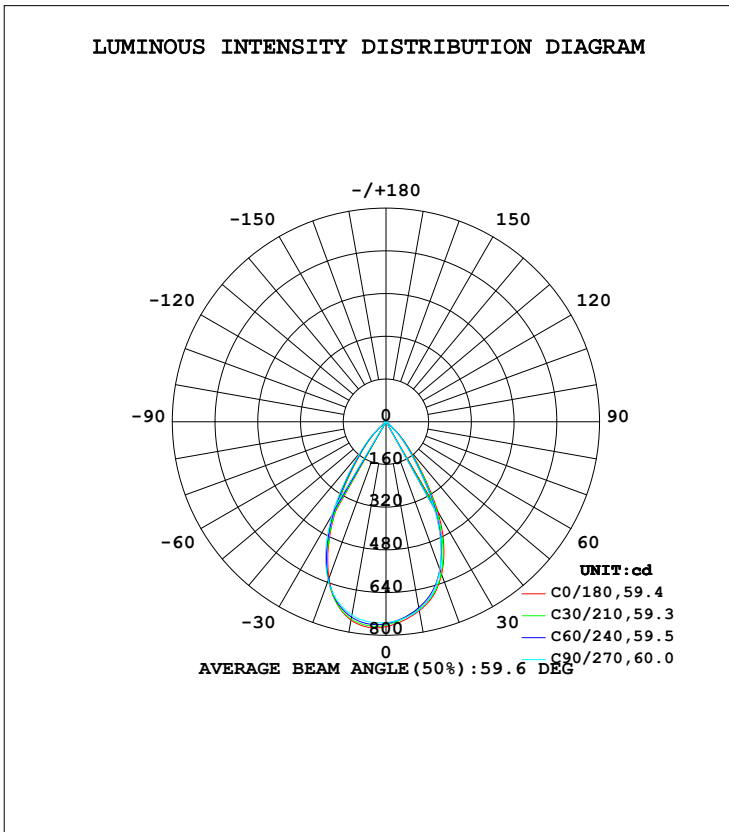
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Myles  
 Test Date: 2019-03-15

$\gamma$  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:0.0491A P:9.980W PF:0.9041 Freq:49.90Hz Lamp Flux:717.687x1 lm		
NAME: FL300-SL300-2S-8W-830-55D	TYPE:Linear Light	SERIAL No.:
SPEC.:3000K	DIM.: φ31mm*H50mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 71.91 lm/W			
MODEL	OSRAM-3000K	I <sub>max</sub> (cd)	773.2	S/MH (C0/180)	0.88
NOMINAL POWER (W)	10	LOR (%)	100.0	S/MH (C90/270)	0.92
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	717.69	η UP, DN (C0-180)	0.0, 48.5
NOMINAL FLUX (lm)	717.687	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 51.5
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	0.90



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Remarks:

**ZONAL FLUX DIAGRAM**

ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	718.8	709.4	714.5	729.5	754.6	746.3	736.2	716.5	0- 10	70.69	70.69	9.85,9.85
20	608.5	600.3	589.5	608.2	624.5	628.3	633.1	615.3	10- 20	190.8	261.5	36.4,36.4
30	386.0	366.0	348.1	354.4	369.8	380.2	406.4	389.8	20- 30	229.1	490.6	68.4,68.4
40	141.0	130.6	119.3	121.4	131.3	137.1	151.3	145.8	30- 40	148.2	638.8	89,89
50	18.51	15.68	13.81	13.61	14.88	15.84	19.69	19.64	40- 50	51.73	690.6	96.2,96.2
60	7.129	6.836	6.473	6.502	6.706	6.877	7.127	7.153	50- 60	8.958	699.5	97.5,97.5
70	5.705	5.809	5.619	5.742	5.722	5.844	5.674	5.796	60- 70	5.915	705.4	98.3,98.3
80	5.674	5.833	5.597	5.785	5.663	5.834	5.613	5.772	70- 80	6.058	711.5	99.1,99.1
90	5.661	5.753	5.597	5.726	5.630	5.731	5.578	5.665	80- 90	6.201	717.7	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): 675.91 lm

%lum = 94.2%

%lamp = 94.2%

Conical surface Flux(120deg): 699.51 lm

%lum = 97.5%

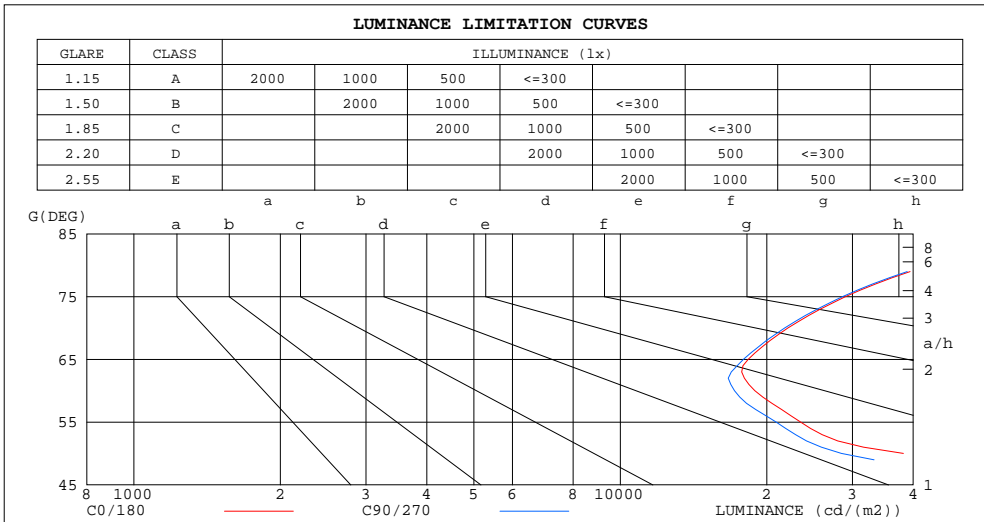
%lamp = 97.5%

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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	86330	85198
80	43315	42728
75	29049	28649
70	22110	21779
65	18320	17915
60	18899	17162
55	23476	20901
50	38180	28483
45	138653	104178

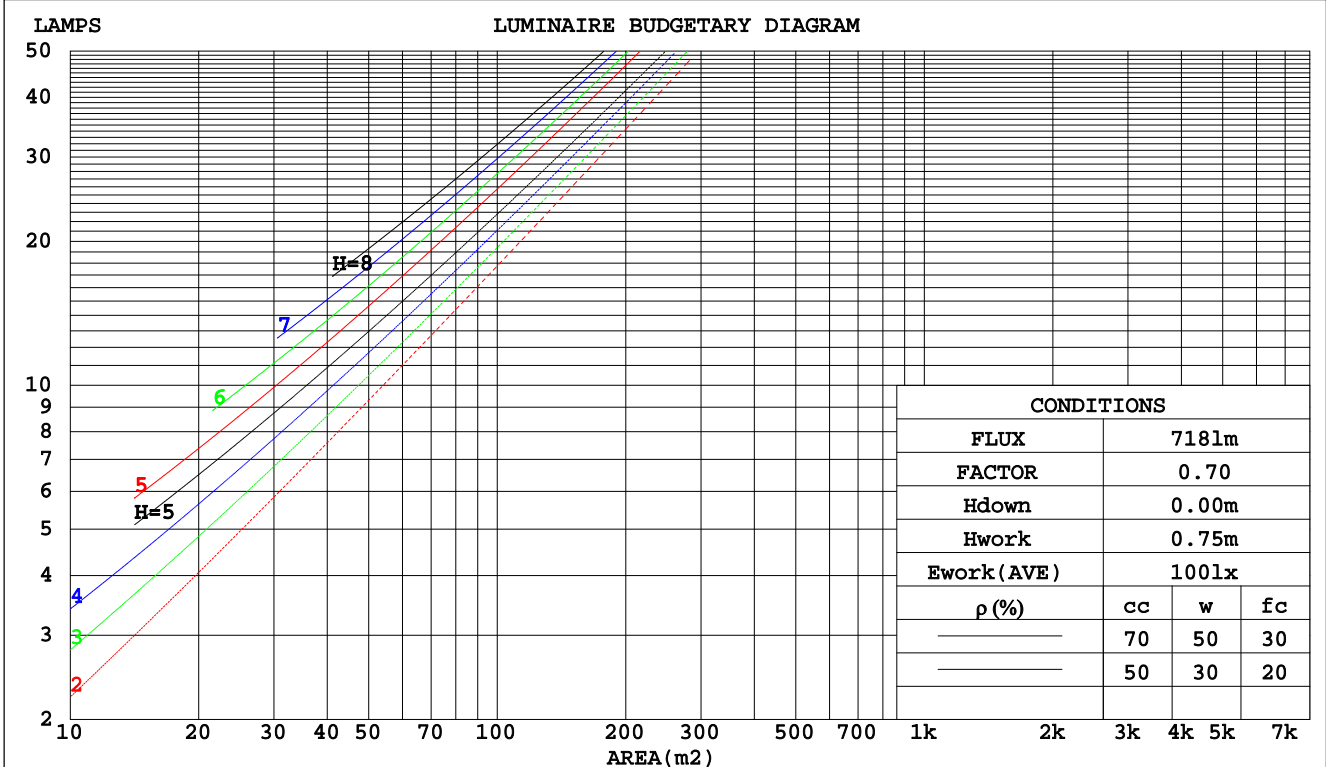
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**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

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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															
	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	1.10	1.07	1.05	1.08	1.05	1.03	1.04	1.02	.00	.00	.98	.97	.96	.95	.94	.92
2.0	1.02	.98	.94	1.00	.96	.93	.97	.94	.91	.94	.91	.89	.91	.89	.87	.85
3.0	.95	.89	.85	.93	.88	.85	.91	.87	.83	.88	.85	.82	.86	.83	.81	.79
4.0	.88	.82	.78	.87	.82	.78	.85	.80	.77	.83	.79	.76	.81	.78	.75	.73
5.0	.82	.76	.72	.81	.76	.72	.80	.75	.71	.78	.74	.70	.76	.73	.70	.68
6.0	.77	.71	.67	.76	.71	.66	.75	.70	.66	.73	.69	.65	.72	.68	.65	.63
7.0	.72	.66	.62	.72	.66	.62	.70	.65	.61	.69	.65	.61	.68	.64	.61	.59
8.0	.68	.62	.58	.68	.62	.58	.66	.61	.57	.65	.61	.57	.64	.60	.57	.55
9.0	.64	.58	.54	.64	.58	.54	.63	.58	.54	.62	.57	.54	.61	.57	.53	.52
10.0	.61	.55	.51	.60	.55	.51	.59	.54	.51	.59	.54	.50	.58	.53	.50	.49



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WEC AND CCEC

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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	.194	.110	.035	.187	.107	.034	.175	.100	.032	.163	.094	.030	.152	.088	.028	
2.0	.182	.100	.031	.177	.097	.030	.166	.092	.029	.156	.088	.027	.147	.083	.026	
3.0	.172	.092	.027	.167	.089	.027	.158	.086	.026	.149	.082	.025	.142	.078	.024	
4.0	.163	.085	.025	.158	.083	.025	.151	.080	.024	.143	.077	.023	.136	.074	.023	
5.0	.154	.079	.023	.151	.077	.023	.144	.075	.022	.137	.072	.022	.131	.070	.021	
6.0	.147	.074	.021	.144	.073	.021	.138	.070	.021	.132	.069	.020	.127	.067	.020	
7.0	.140	.069	.020	.137	.068	.019	.132	.067	.019	.127	.065	.019	.122	.063	.019	
8.0	.134	.065	.018	.131	.065	.018	.126	.063	.018	.122	.062	.018	.117	.060	.018	
9.0	.128	.062	.017	.126	.061	.017	.121	.060	.017	.117	.059	.017	.113	.058	.017	
10.0	.122	.059	.016	.120	.058	.016	.117	.057	.016	.113	.056	.016	.109	.055	.016	

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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	.172	.157	.144	.147	.135	.124	.101	.093	.085	.058	.054	.050	.019	.017	.016	
2.0	.158	.132	.111	.135	.114	.096	.093	.079	.067	.053	.046	.039	.017	.015	.013	
3.0	.146	.114	.088	.125	.098	.076	.086	.068	.054	.049	.040	.032	.016	.013	.010	
4.0	.136	.099	.071	.116	.086	.062	.080	.060	.044	.046	.035	.026	.015	.011	.008	
5.0	.127	.088	.058	.109	.076	.051	.075	.053	.036	.044	.031	.021	.014	.010	.007	
6.0	.120	.078	.049	.103	.068	.042	.071	.048	.030	.041	.028	.018	.013	.009	.006	
7.0	.113	.071	.041	.097	.061	.036	.067	.043	.025	.039	.025	.015	.013	.008	.005	
8.0	.108	.065	.035	.093	.056	.031	.064	.039	.022	.037	.023	.013	.012	.008	.004	
9.0	.102	.060	.031	.088	.052	.027	.061	.036	.019	.036	.021	.011	.012	.007	.004	
10.0	.098	.055	.027	.084	.048	.023	.058	.034	.017	.034	.020	.010	.011	.007	.003	

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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]  
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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	26.0	27.0	26.2	27.2	27.3	25.3	26.3	25.6	26.5	26.7
3H	25.9	26.9	26.2	27.1	27.3	25.3	26.2	25.6	26.4	26.6
4H	26.0	26.9	26.3	27.1	27.3	25.4	26.3	25.7	26.5	26.7
6H	26.2	27.0	26.5	27.2	27.5	25.6	26.4	25.9	26.7	26.9
8H	26.4	27.2	26.7	27.4	27.7	25.8	26.6	26.2	26.9	27.1
12H	26.7	27.4	27.0	27.7	28.0	26.2	27.0	26.5	27.2	27.5
4H 2H	25.8	26.6	26.1	26.9	27.1	25.1	26.0	25.4	26.2	26.4
3H	25.8	26.5	26.1	26.8	27.1	25.2	25.9	25.5	26.2	26.5
4H	25.9	26.6	26.3	26.9	27.2	25.4	26.1	25.7	26.4	26.7
6H	26.3	26.9	26.7	27.3	27.6	25.8	26.4	26.2	26.8	27.1
8H	26.7	27.2	27.0	27.6	27.9	26.2	26.8	26.6	27.1	27.5
12H	27.2	27.7	27.6	28.1	28.5	26.8	27.3	27.2	27.7	28.1
8H 4H	26.0	26.5	26.4	26.9	27.3	25.5	26.0	25.8	26.4	26.7
6H	26.5	27.0	27.0	27.4	27.8	26.1	26.6	26.6	27.0	27.4
8H	27.1	27.5	27.5	27.9	28.3	26.7	27.1	27.2	27.5	28.0
12H	27.8	28.2	28.3	28.6	29.1	27.6	27.9	28.0	28.4	28.8
12H 4H	26.0	26.5	26.4	26.9	27.3	25.5	26.0	25.9	26.4	26.7
6H	26.6	27.0	27.1	27.5	27.9	26.2	26.7	26.7	27.1	27.5
8H	27.2	27.6	27.7	28.0	28.5	26.9	27.3	27.4	27.7	28.2
Variations with the observer position at spacings:										
S = 1.0H	+ 1.9 / - 2.5					+ 1.5 / - 2.2				
1.5H	+ 3.7 / - 2.7					+ 3.2 / - 2.2				
2.0H	+ 3.6 / - 0.9					+ 2.5 / - 0.5				

CIE Pub.117, 717.7 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.2)

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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]  
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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	85	78	74	84	78	74	83	77	74	70
0.80	92	86	82	92	86	82	91	85	82	78
1.00	97	91	87	96	91	87	95	91	87	82
1.25	102	96	92	100	95	92	98	94	91	87
1.50	104	99	96	103	98	95	101	97	94	89
2.00	107	103	99	106	102	99	103	100	97	92
2.50	109	105	102	108	104	101	104	101	99	93
3.00	111	107	104	109	106	103	106	103	101	94
4.00	113	110	107	111	108	106	107	105	103	96
5.00	114	112	110	112	110	108	108	106	105	97
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

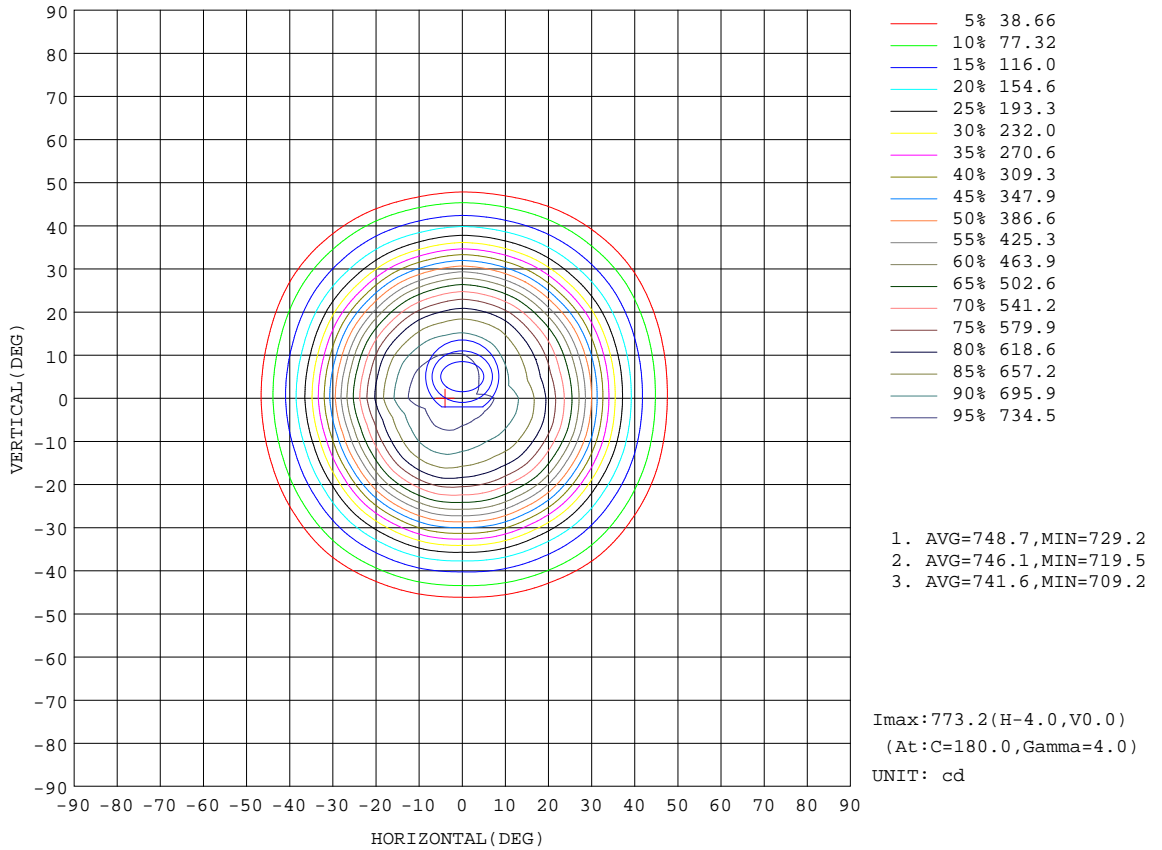
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**ISOCANDELA DIAGRAM**

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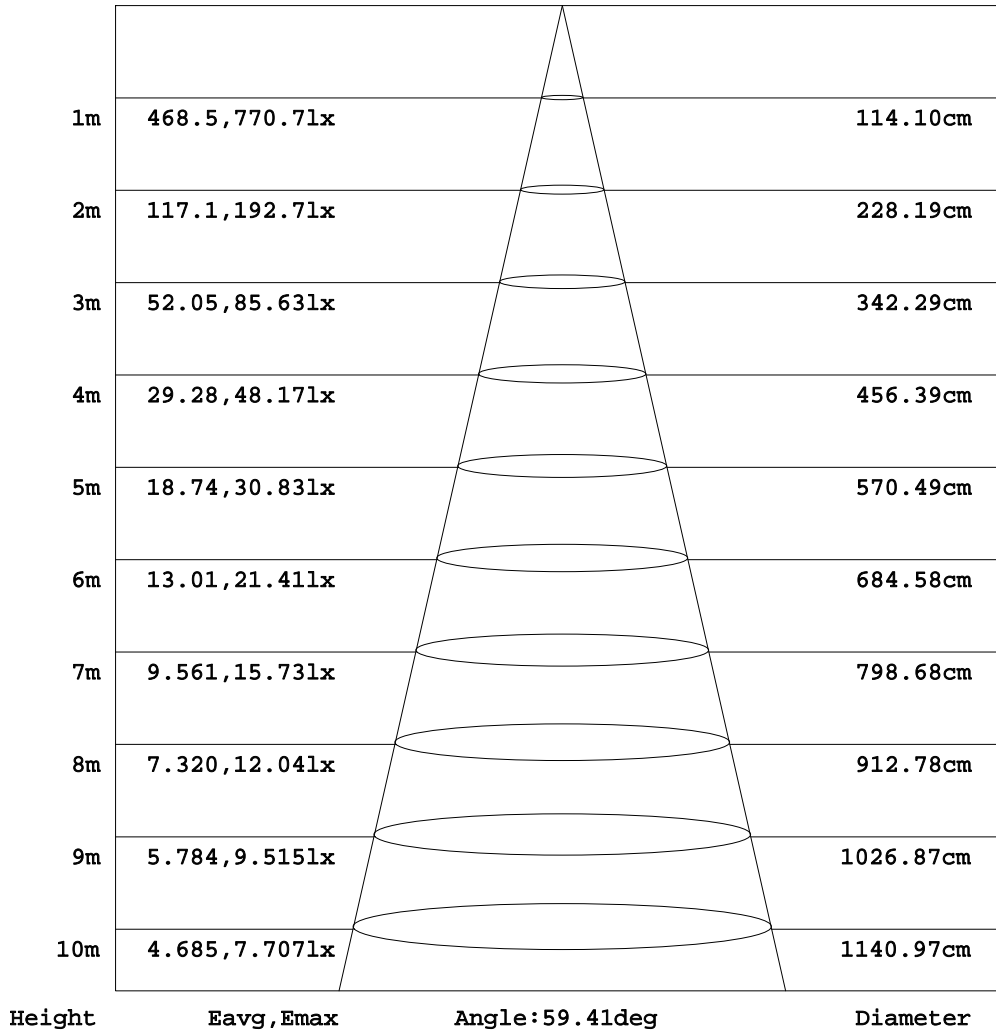
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**AAI Figure**

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Flux out:490.6 lm



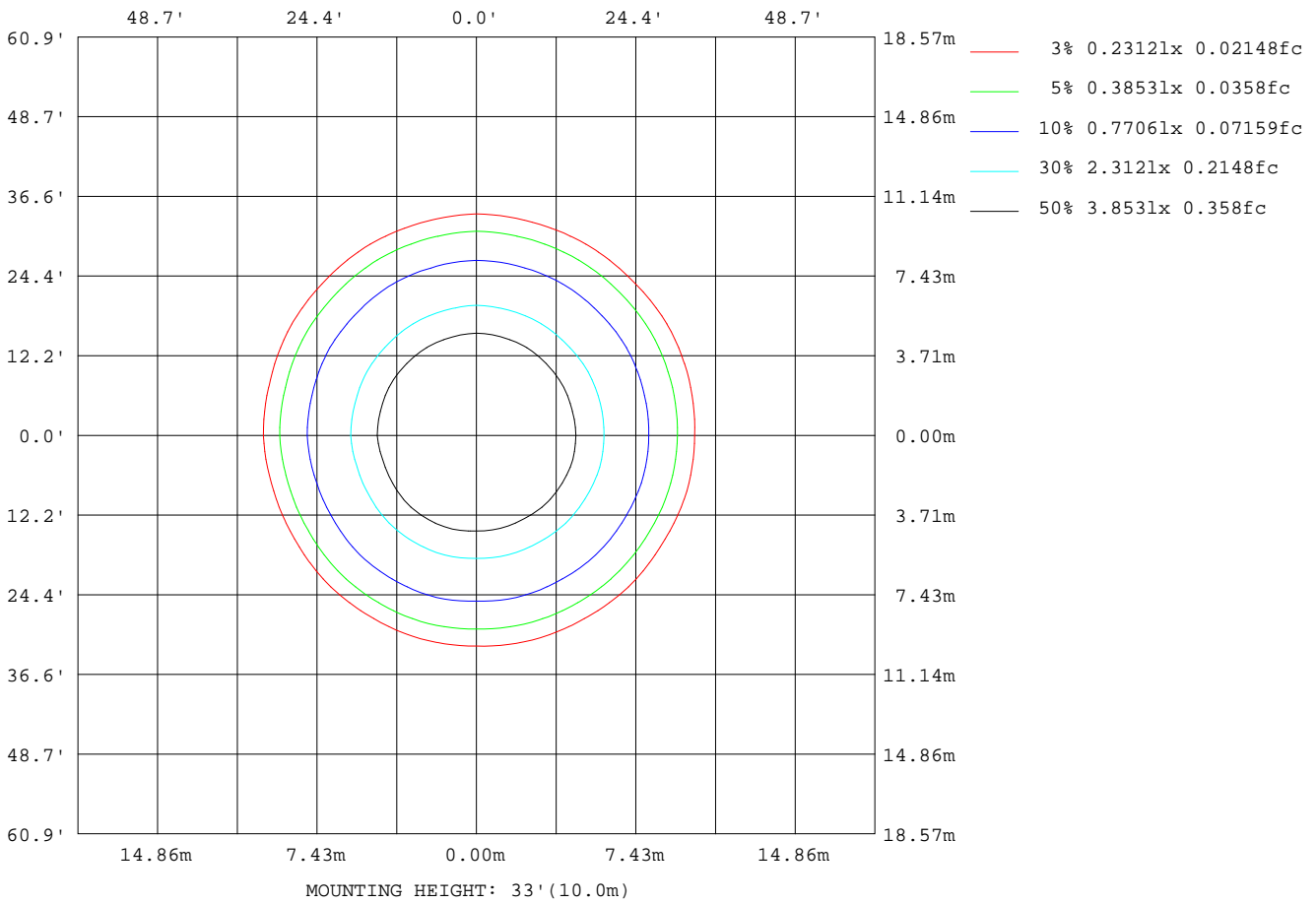
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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**ISOLUX DIAGRAM**

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**LED Avg.L Report**

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NAME: FL300-SL300-2S-8W-830-55D	TYPE:Linear Light	SERIAL No.:
SPEC.:3000K	DIM.: φ31mm*H50mm	
MFR.: NEKO LIGHTING AG		

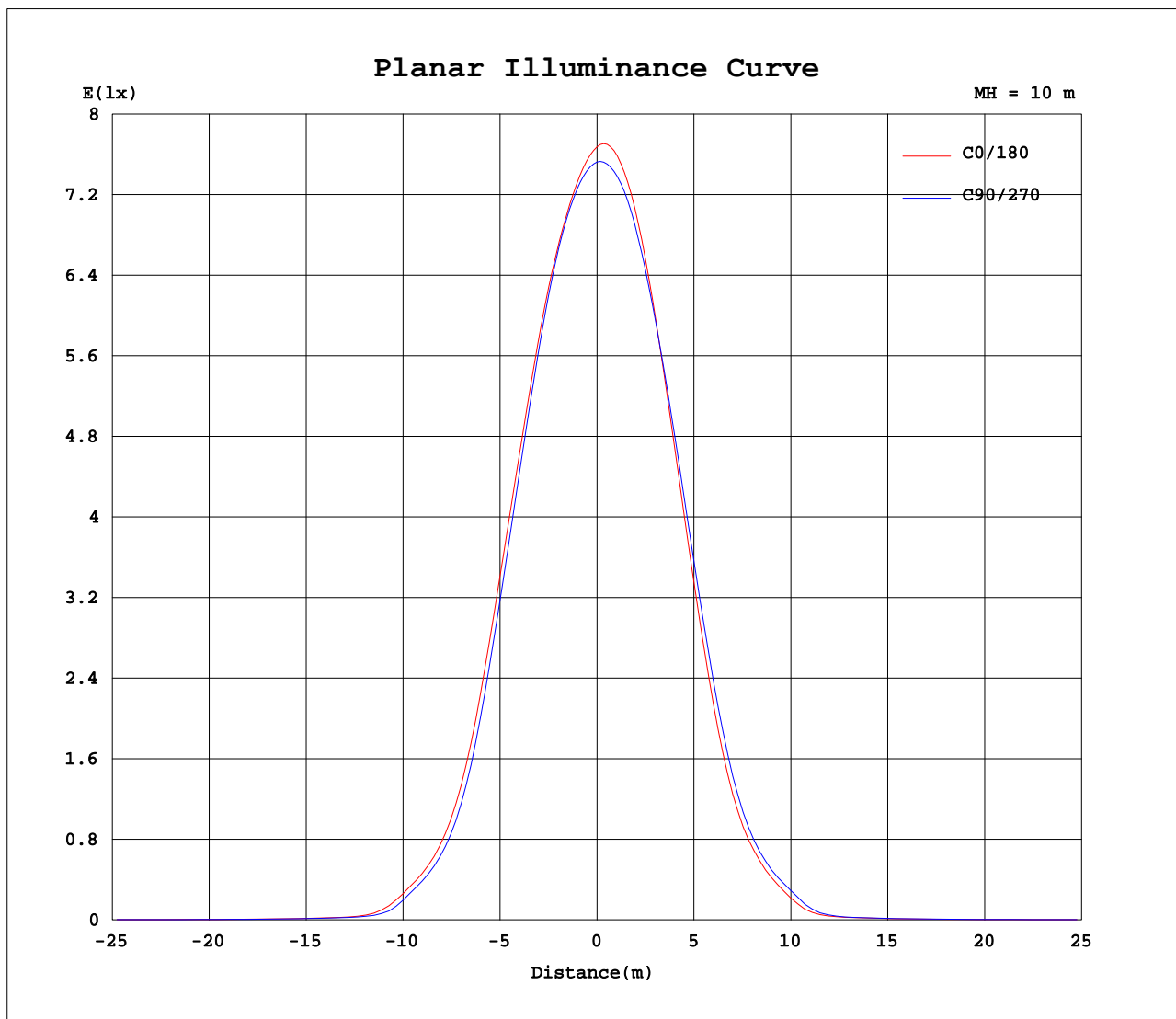
AvgL	cd/m2
L_0~180 (65) av	18325
L_0~180 (75) av	29065
L_0~180 (85) av	86063
L_90~270 (65) av	18081
L_90~270 (75) av	28731
L_90~270 (85) av	85198
L_45 (65) av	18426
L_45 (75) av	29740
L_45 (85) av	87734

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Myles  
Test Date:2019-03-15

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: 2019-03-15

$\gamma$  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:



