

LED Lineaer Light FL300-SL300-1S-4W-830-15D



Light Output Ratio:	100.0%	
Luminaire Power:	5.45 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	1.00	fine grid method.

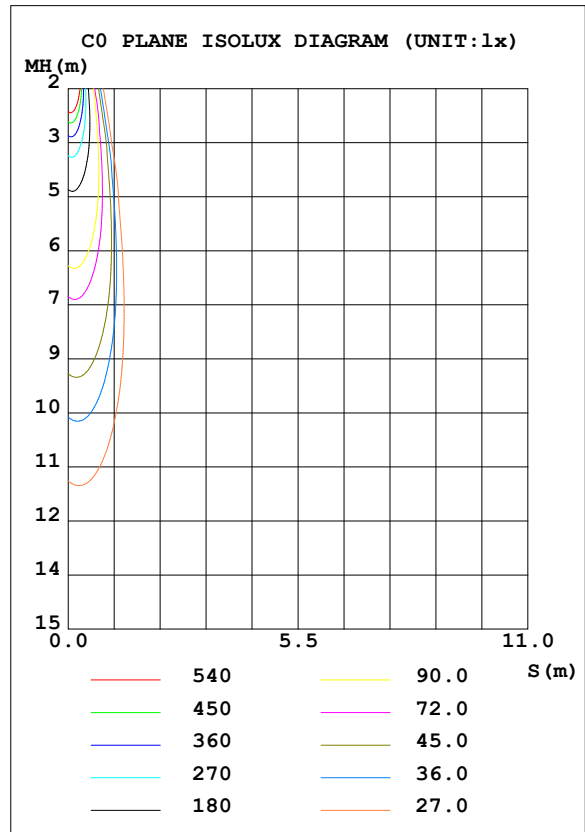
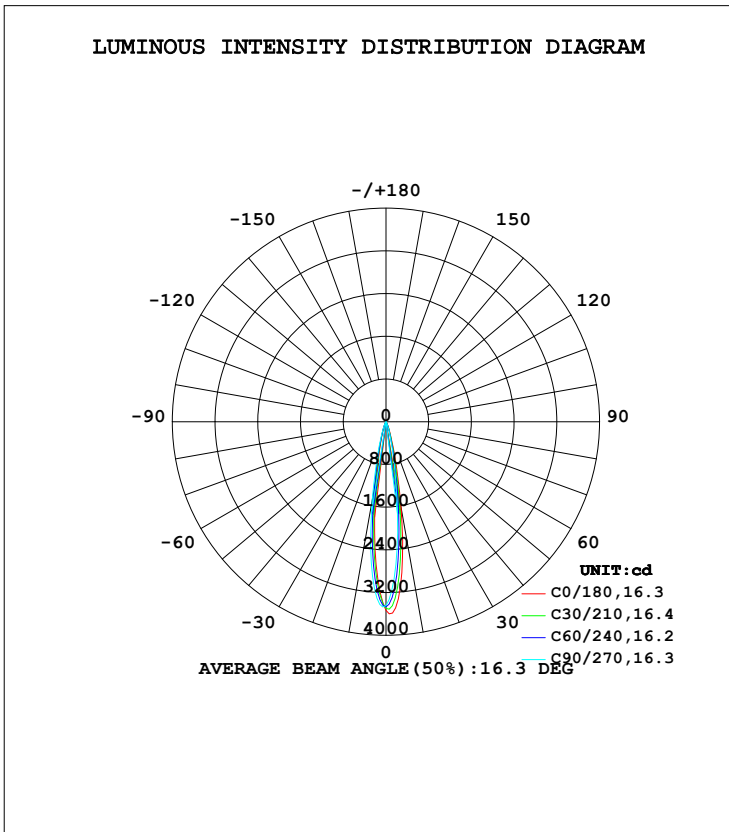
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Myles
Test Date: 2018-12-21

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:221.1V I:0.0312A P:5.450W PF:0.7900 Freq:49.90Hz Lamp Flux:406.182x1 lm		
NAME: FL300-SL300-1S-4W-830-15D	TYPE:Lineaar Light	SERIAL No.:
SPEC.:3000K	DIM.: φ54mm*H72mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 74.53 lm/W			
MODEL	OSRAM-3000K	I _{max} (cd)	3598	S/MH (C0/180)	0.24
NOMINAL POWER (W)	6	LOR (%)	100.0	S/MH (C90/270)	0.31
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	406.18	η UP, DN (C0-180)	0.0,45.8
NOMINAL FLUX (lm)	406.182	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0,54.2
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



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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	1628	1347	1014	865.2	988.6	1144	1487	1729	0- 10	208.3	208.3	51.3,51.3
20	212.7	181.3	151.1	133.8	152.4	166.7	205.8	229.2	10- 20	140.3	348.6	85.8,85.8
30	41.49	37.11	31.64	27.99	30.87	33.88	40.40	43.67	20- 30	39.46	388.1	95.5,95.5
40	11.91	11.20	10.02	9.200	10.05	10.59	11.86	12.15	30- 40	12.43	400.5	98.6,98.6
50	3.103	3.040	2.538	2.175	2.137	2.365	2.987	3.076	40- 50	4.327	404.8	99.7,99.7
60	0.5724	0.5126	0.3511	0.2615	0.3158	0.4164	0.5319	0.6025	50- 60	1.222	406.1	100,100
70	0.0154	0.0284	0.0153	0.0044	0.0022	0.0197	0.0043	0.0088	60- 70	0.1032	406.2	100,100
80	0.0066	0.0044	0.0066	0.0044	0.0022	0.0044	0.0022	0.0044	70- 80	0.0072	406.2	100,100
90	0.0066	0.0044	0.0066	0.0022	0.0022	0	0.0022	0.0022	80- 90	0.0041	406.2	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): 403.35 lm

%lum = 99.3%
%lamp = 99.3%

Conical surface Flux(120deg): 406.07 lm

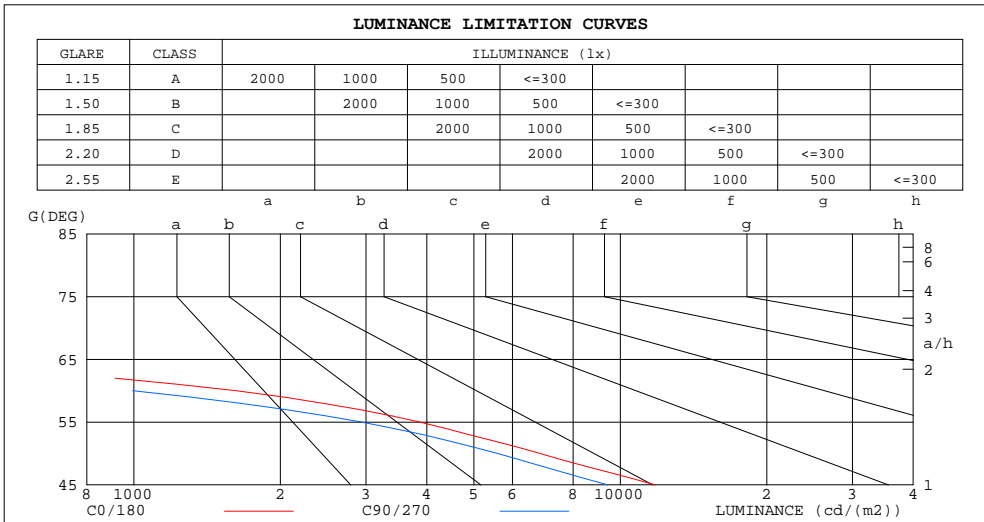
%lum = 100.0%
%lamp = 100.0%

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γ Range: 0 - 90DEG
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Humidity:56%
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Remarks:

LUMINANCE LIMITATION CURVES

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SPEC.:3000K	DIM.: φ54mm*H72mm	
MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	107	71
80	54	53
75	60	48
70	64	63
65	164	103
60	1620	994
55	3870	2936
50	6834	5590
45	11807	9437

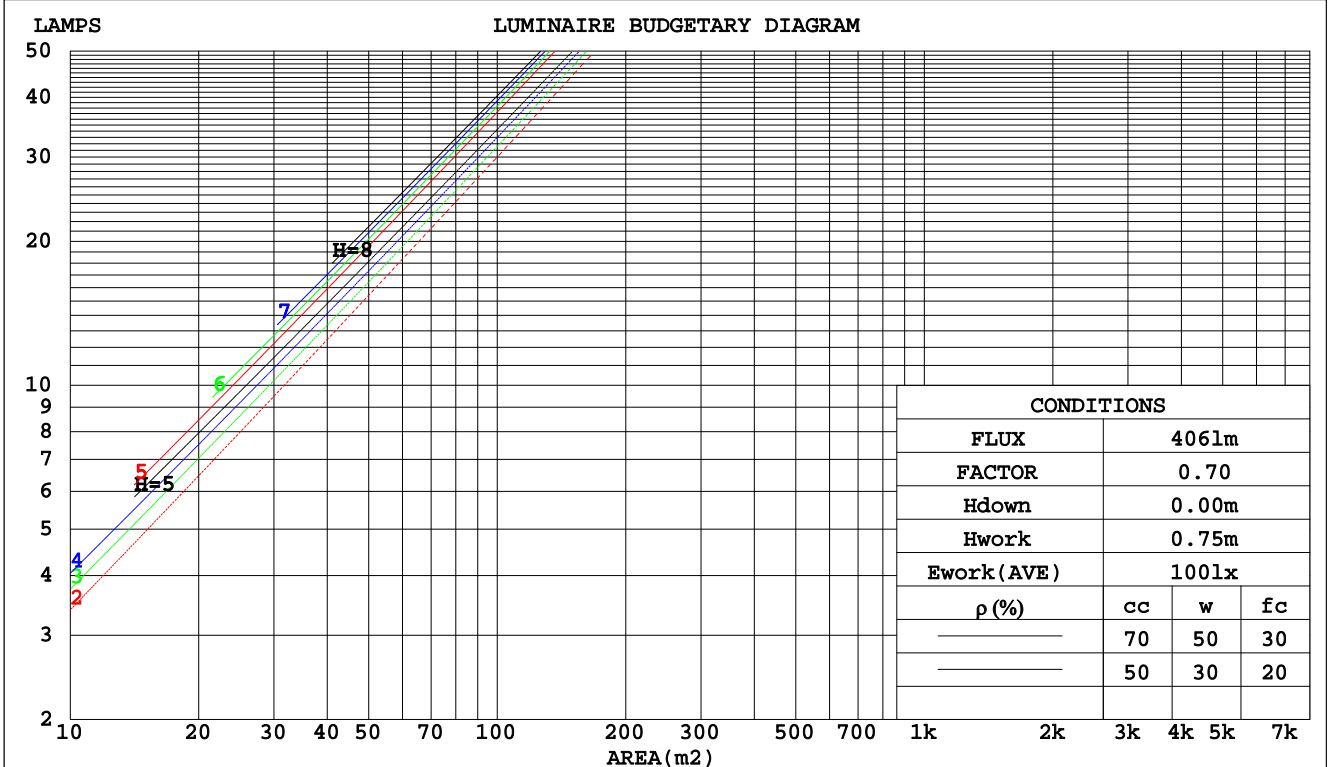
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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
pw																
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	1.01	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	.95	.92	.90	.93	.91	.89	.88
6.0	.96	.92	.89	.95	.92	.89	.94	.91	.89	.93	.90	.88	.91	.89	.87	.87
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	.85	.89	.86	.84	.88	.86	.84	.83
9.0	.89	.86	.83	.89	.85	.83	.88	.85	.83	.87	.85	.83	.87	.84	.82	.82
10.0	.87	.84	.81	.87	.84	.81	.86	.83	.81	.86	.83	.81	.85	.83	.81	.80



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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	.125	.071	.023	.119	.068	.022	.106	.061	.020	.095	.055	.018	.085	.049	.016	
2.0	.115	.063	.019	.110	.060	.019	.100	.055	.017	.090	.051	.016	.082	.046	.015	
3.0	.107	.057	.017	.102	.055	.016	.094	.051	.015	.086	.047	.014	.079	.044	.014	
4.0	.099	.052	.015	.095	.050	.015	.088	.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	.087	.044	.013	.085	.043	.012	.080	.041	.012	.075	.039	.011	.070	.037	.011	
7.0	.082	.041	.012	.080	.040	.011	.076	.038	.011	.072	.037	.011	.068	.035	.010	
8.0	.078	.038	.011	.076	.038	.011	.072	.036	.010	.069	.035	.010	.065	.034	.010	
9.0	.074	.036	.010	.073	.035	.010	.069	.034	.010	.066	.033	.009	.063	.032	.009	
10.0	.071	.034	.009	.069	.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	.093	.074	.059	.064	.051	.042	.037	.030	.025	.012	.010	.008	
6.0	.099	.075	.057	.085	.065	.050	.059	.045	.035	.034	.027	.021	.011	.009	.007	
7.0	.091	.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	

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 C Interval: 15.0DEG
 Test Speed: HIGH
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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:

UGR(Unified Glare Rating) Table

Test:U:221.1V I:0.0312A P:5.450W PF:0.7900 Freq:49.90Hz Lamp Flux:406.182x1 lm		
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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	13.7	14.3	13.9	14.4	14.6	12.6	13.1	12.8	13.3	13.4
3H	13.6	14.1	13.8	14.3	14.5	12.4	13.0	12.7	13.1	13.3
4H	13.5	14.0	13.7	14.2	14.4	12.3	12.9	12.6	13.1	13.3
6H	13.4	13.9	13.7	14.1	14.3	12.3	12.7	12.5	13.0	13.2
8H	13.3	13.8	13.6	14.1	14.3	12.2	12.7	12.5	12.9	13.2
12H	13.3	13.8	13.6	14.0	14.3	12.2	12.6	12.5	12.9	13.1
4H 2H	13.5	14.0	13.7	14.2	14.4	12.4	12.9	12.6	13.1	13.3
3H	13.3	13.8	13.6	14.0	14.3	12.2	12.7	12.5	12.9	13.2
4H	13.2	13.6	13.6	13.9	14.2	12.1	12.5	12.4	12.8	13.1
6H	13.1	13.5	13.5	13.8	14.2	12.0	12.4	12.4	12.7	13.0
8H	13.1	13.4	13.5	13.8	14.1	12.0	12.3	12.3	12.6	13.0
12H	13.0	13.3	13.4	13.7	14.1	11.9	12.2	12.3	12.6	13.0
8H 4H	13.1	13.4	13.5	13.8	14.1	12.0	12.3	12.3	12.6	13.0
6H	13.0	13.2	13.4	13.6	14.0	11.8	12.1	12.3	12.5	12.9
8H	12.9	13.1	13.3	13.6	14.0	11.8	12.0	12.2	12.4	12.9
12H	12.8	13.0	13.3	13.5	14.0	11.7	11.9	12.2	12.4	12.8
12H 4H	13.0	13.3	13.4	13.7	14.1	11.9	12.2	12.3	12.6	13.0
6H	12.9	13.1	13.3	13.6	14.0	11.8	12.0	12.2	12.4	12.9
8H	12.8	13.0	13.3	13.5	14.0	11.7	11.9	12.2	12.4	12.8
Variations with the observer position at spacings:										
S = 1.0H	+ 2.8 / - 9.0					+ 2.8 / -10.2				
1.5H	+ 4.4 / - 6.1					+ 4.3 / - 5.9				
2.0H	+ 5.4 / -17.0					+ 5.1 / -16.9				

CIE Pub.117, 406.2 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -3.1)

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 Remarks:

UTILIZATION FACTORS TABLE

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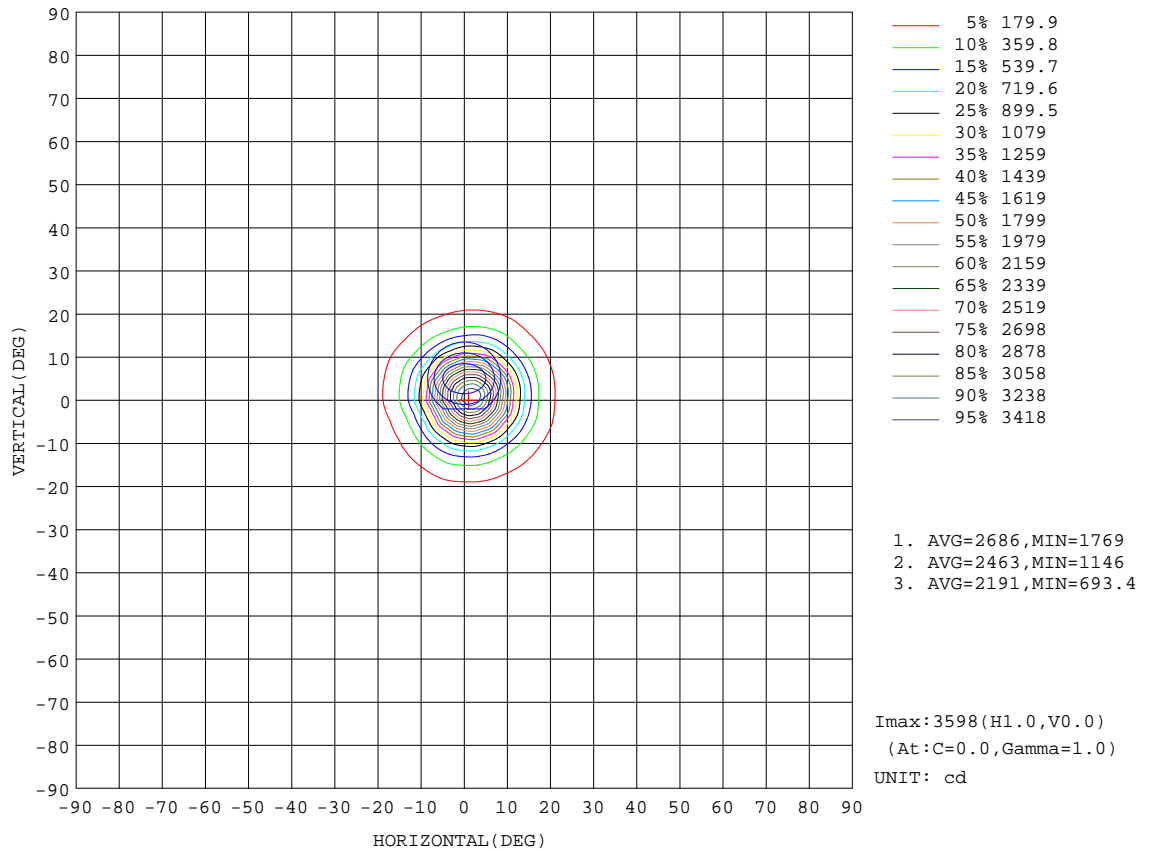
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	91	85	82	90	85	81	89	84	81	78
0.80	98	92	89	97	92	89	96	92	89	85
1.00	102	97	93	101	96	93	99	96	92	89
1.25	105	100	97	104	100	97	102	99	96	92
1.50	108	103	100	106	103	100	104	101	99	95
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	110	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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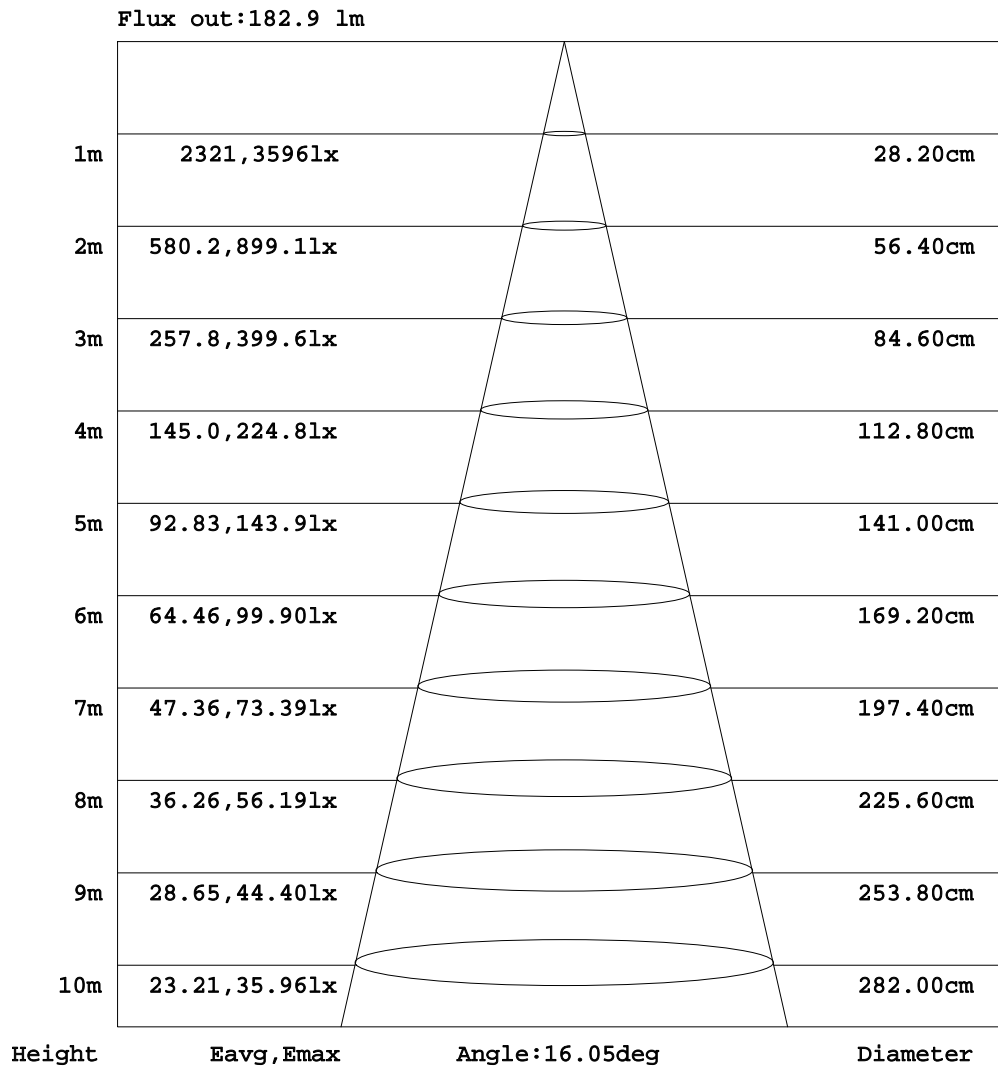


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AAI Figure

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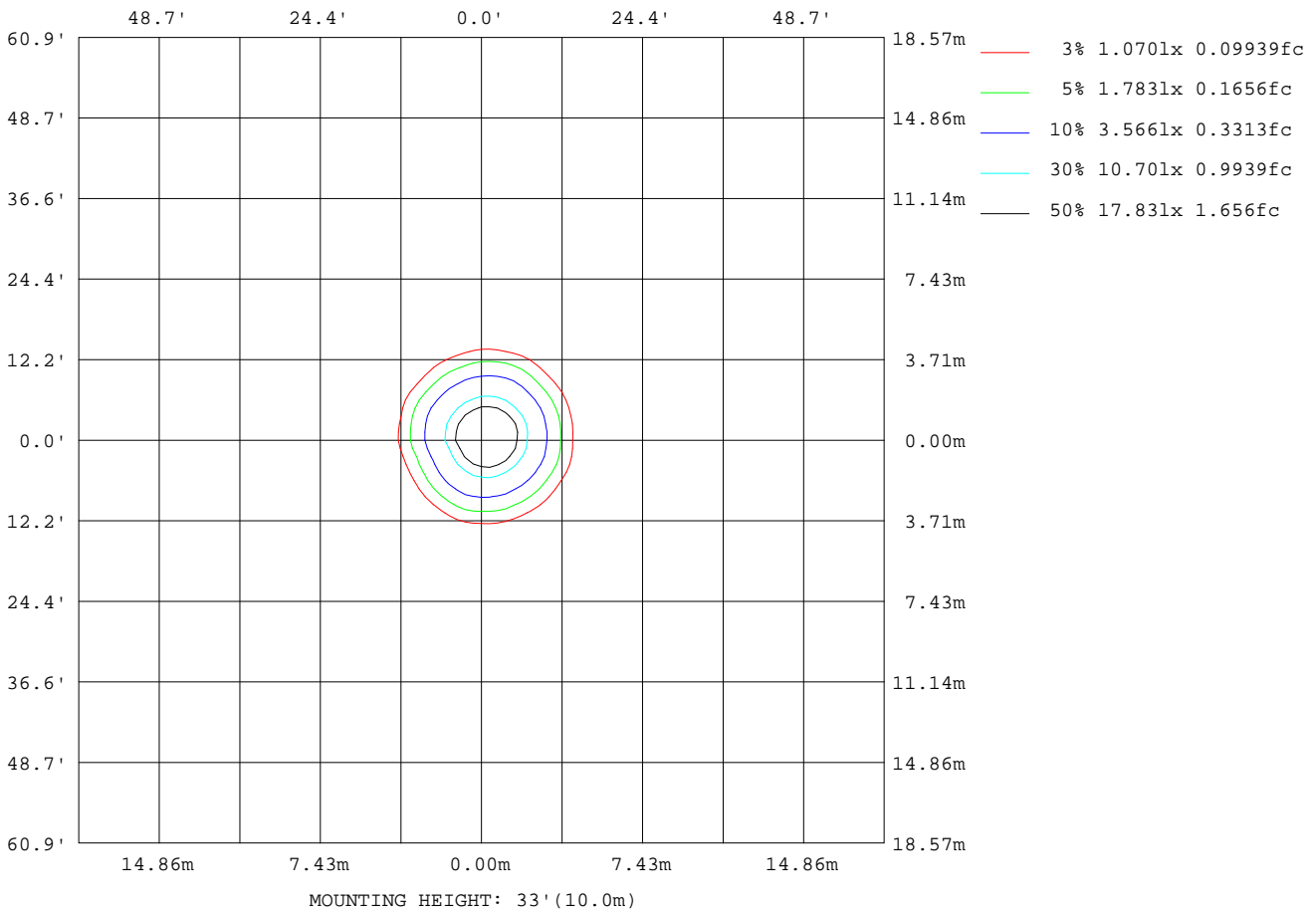
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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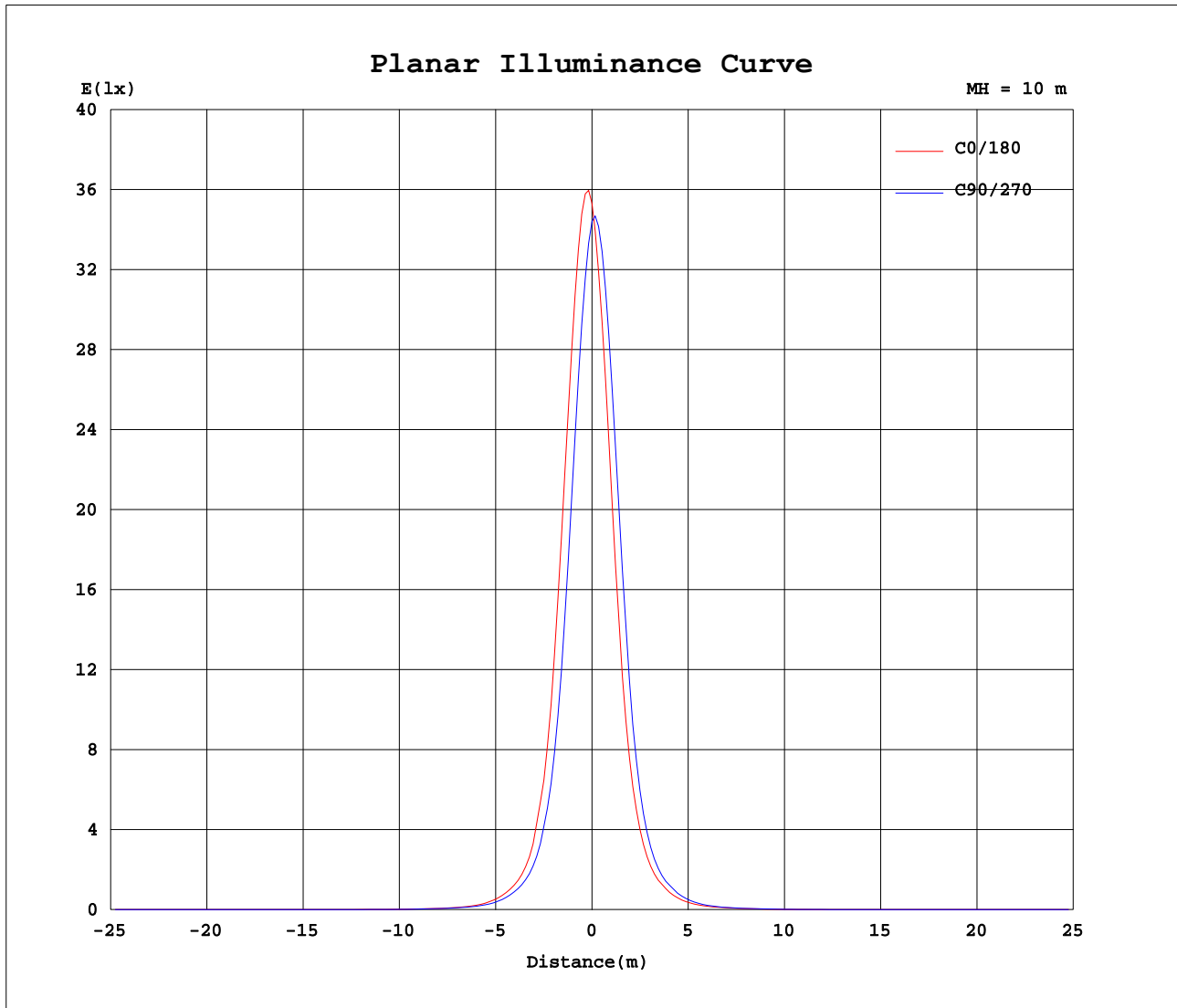
AvgL	cd/m2
L_0~180 (65) av	86
L_0~180 (75) av	36
L_0~180 (85) av	71
L_90~270 (65) av	106
L_90~270 (75) av	30
L_90~270 (85) av	53
L_45 (65) av	122
L_45 (75) av	30
L_45 (85) av	53

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Myles
Test Date:2018-12-21

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: 2018-12-21

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:

