

LED Linear Light FL300-SL300-1S-4W-840-30D



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.

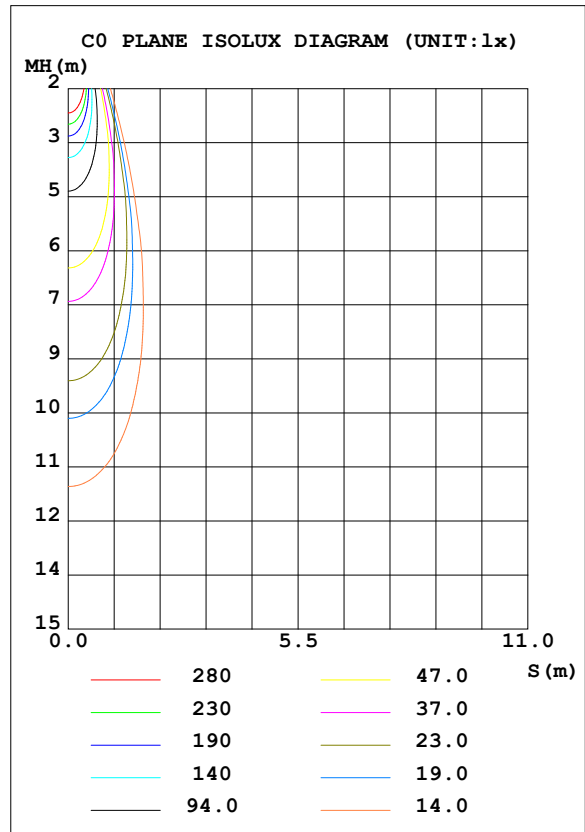
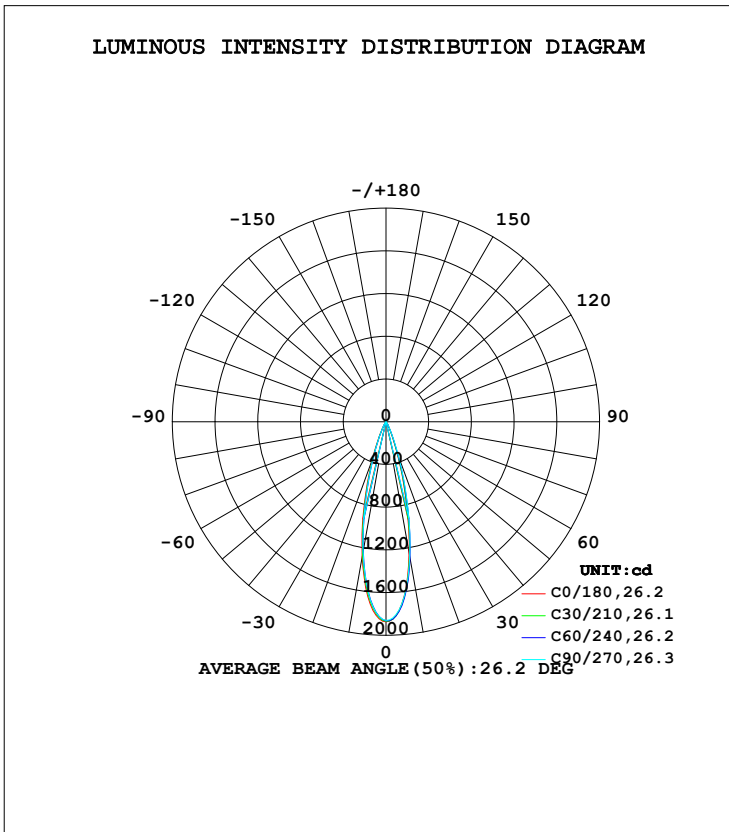
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Myles  
Test Date: 2019-03-05

$\gamma$  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:221.1V I:0.0311A P:5.450W PF:0.7900 Freq:49.90Hz Lamp Flux:433.45x1 lm		
NAME: FL300-SL300-1S-4W-840-30D	TYPE:Linear Light	SERIAL No.:
SPEC.:4000K	DIM.: φ30mm*H72mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 79.53 lm/W			
MODEL	OSRAM-4000K	I <sub>max</sub> (cd)	1874	S/MH (C0/180)	0.45
NOMINAL POWER (W)	6	LOR (%)	100.0	S/MH (C90/270)	0.44
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	433.45	η UP, DN (C0-180)	0.0, 50.2
NOMINAL FLUX (lm)	433.45	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 49.8
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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 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
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 Remarks:

**ZONAL FLUX DIAGRAM**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1249	1301	1285	1267	1288	1226	1235	1254	0- 10	147.9	147.9	34.1,34.1
20	291.6	314.6	343.9	350.5	370.1	323.1	329.3	307.4	10- 20	200.3	348.2	80.3,80.3
30	47.89	46.45	51.06	50.71	54.18	48.04	50.39	47.12	20- 30	63.71	411.9	95,95
40	12.01	11.92	11.69	11.24	11.99	10.99	12.35	12.70	30- 40	15.84	427.7	98.7,98.7
50	2.346	2.612	2.718	2.789	2.858	2.789	2.803	2.726	40- 50	4.414	432.2	99.7,99.7
60	0.3094	0.3425	0.3183	0.3469	0.3487	0.3179	0.2679	0.3353	50- 60	1.163	433.3	100,100
70	0.0416	0.0305	0.0481	0.0306	0.0284	0.0372	0.0153	0.0416	60- 70	0.0990	433.4	100,100
80	0.0175	0.0109	0.0175	0.0109	0.0022	0.0153	0.0066	0.0131	70- 80	0.0205	433.4	100,100
90	0.0131	0.0109	0.0131	0.0131	0.0066	0.0066	0.0066	0.0066	80- 90	0.0114	433.5	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): 430.63 lm

%lum = 99.3%  
%lamp = 99.3%

Conical surface Flux(120deg): 433.32 lm

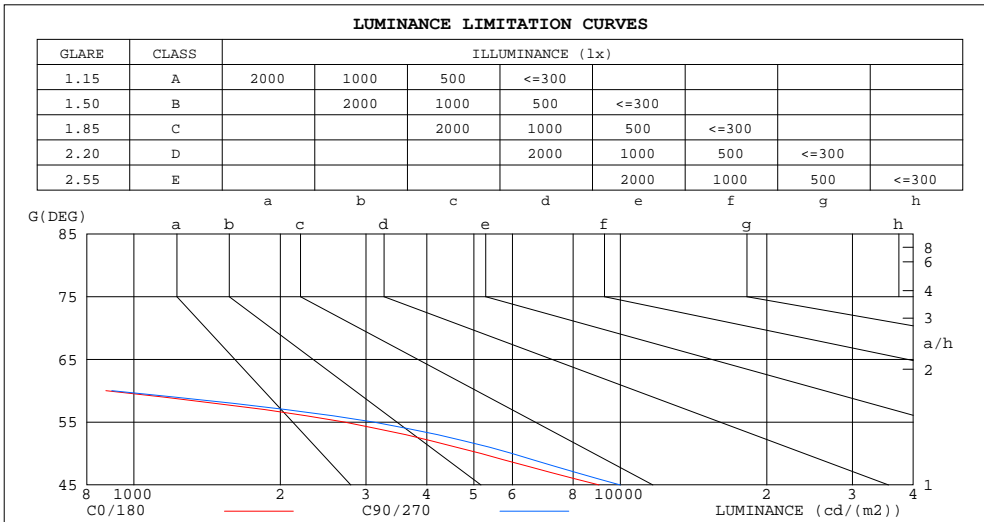
%lum = 100.0%  
%lamp = 100.0%

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γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:56%  
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Remarks:

**LUMINANCE LIMITATION CURVES**

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SPEC.:4000K	DIM.: φ30mm*H72mm	
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LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	213	249
80	143	143
75	132	144
70	172	199
65	242	286
60	876	901
55	2709	3110
50	5165	5984
45	9044	9994

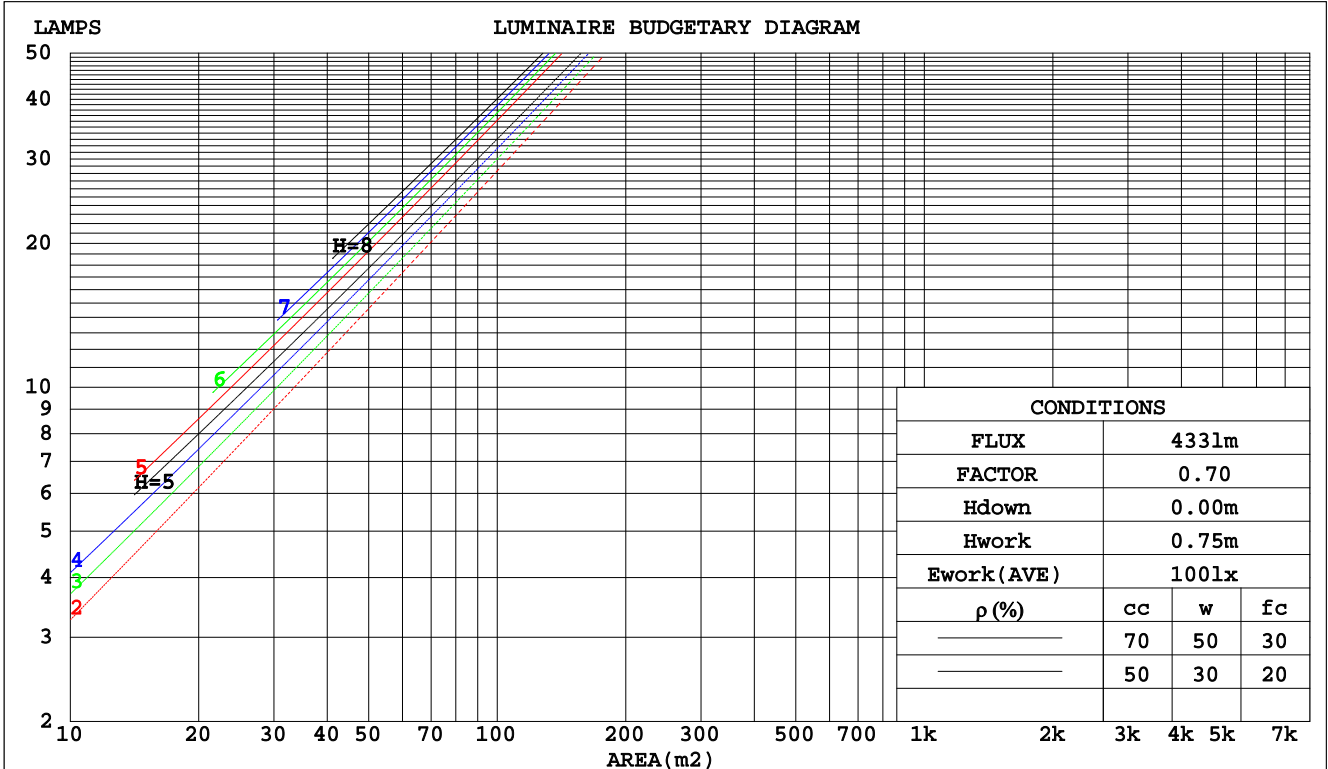
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**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

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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	1.13	1.11	1.09	1.11	1.09	1.08	1.07	1.05	1.04	1.03	1.02	1.01	.00	.99	.98	.97
2.0	1.08	1.05	1.02	1.06	1.03	1.01	1.03	1.01	.99	.00	.98	.97	.97	.96	.95	.93
3.0	1.03	.99	.97	1.02	.98	.96	.99	.97	.94	.97	.95	.93	.95	.93	.92	.90
4.0	.99	.95	.92	.98	.94	.91	.96	.93	.90	.94	.92	.89	.92	.90	.88	.87
5.0	.95	.91	.88	.94	.91	.88	.93	.90	.87	.91	.89	.86	.90	.88	.86	.85
6.0	.92	.88	.85	.91	.87	.85	.90	.87	.84	.89	.86	.84	.88	.85	.83	.82
7.0	.89	.85	.82	.88	.85	.82	.87	.84	.81	.86	.83	.81	.85	.83	.81	.80
8.0	.86	.82	.79	.86	.82	.79	.85	.81	.79	.84	.81	.79	.83	.80	.78	.77
9.0	.84	.80	.77	.83	.79	.77	.83	.79	.77	.82	.79	.76	.81	.78	.76	.75
10.0	.81	.77	.75	.81	.77	.75	.80	.77	.74	.80	.77	.74	.79	.76	.74	.73



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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	.137	.078	.025	.130	.074	.024	.118	.068	.022	.106	.061	.020	.096	.056	.018	
2.0	.127	.069	.021	.121	.067	.021	.111	.062	.019	.102	.057	.018	.093	.053	.017	
3.0	.118	.063	.019	.114	.061	.018	.105	.057	.017	.097	.053	.016	.090	.050	.015	
4.0	.111	.058	.017	.107	.056	.017	.100	.053	.016	.093	.050	.015	.087	.047	.014	
5.0	.105	.053	.015	.101	.052	.015	.095	.050	.015	.090	.047	.014	.084	.045	.014	
6.0	.099	.050	.014	.096	.049	.014	.091	.047	.014	.086	.045	.013	.081	.043	.013	
7.0	.094	.047	.013	.092	.046	.013	.087	.044	.013	.083	.042	.012	.079	.041	.012	
8.0	.090	.044	.012	.088	.043	.012	.084	.042	.012	.080	.040	.012	.076	.039	.011	
9.0	.086	.042	.012	.084	.041	.011	.080	.040	.011	.077	.039	.011	.074	.038	.011	
10.0	.082	.039	.011	.081	.039	.011	.078	.038	.011	.075	.037	.011	.072	.036	.010	

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	.148	.144	.135	.127	.099	.093	.088	.057	.054	.051	.018	.017	.017	
2.0	.150	.133	.118	.129	.114	.102	.088	.079	.071	.051	.046	.042	.016	.015	.014	
3.0	.135	.113	.096	.116	.098	.083	.080	.068	.058	.046	.040	.034	.015	.013	.011	
4.0	.123	.098	.079	.105	.085	.069	.072	.059	.048	.042	.035	.029	.013	.011	.009	
5.0	.112	.086	.066	.096	.074	.057	.066	.052	.040	.038	.030	.024	.012	.010	.008	
6.0	.103	.076	.056	.089	.065	.048	.061	.046	.034	.036	.027	.020	.011	.009	.007	
7.0	.096	.067	.047	.082	.058	.041	.057	.041	.029	.033	.024	.017	.011	.008	.006	
8.0	.089	.061	.041	.077	.053	.036	.053	.037	.025	.031	.022	.015	.010	.007	.005	
9.0	.084	.055	.036	.072	.048	.031	.050	.034	.022	.029	.020	.013	.009	.007	.004	
10.0	.079	.050	.031	.068	.044	.027	.047	.031	.019	.028	.018	.012	.009	.006	.004	

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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:0.0311A P:5.450W PF:0.7900 Freq:49.90Hz Lamp Flux:433.45x1 lm		
NAME: FL300-SL300-1S-4W-840-30D	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	13.5	14.1	13.7	14.3	14.4	13.8	14.4	14.0	14.6	14.7
3H	13.4	14.0	13.6	14.1	14.3	13.6	14.2	13.9	14.4	14.6
4H	13.3	13.9	13.5	14.1	14.3	13.5	14.1	13.8	14.3	14.5
6H	13.2	13.7	13.5	14.0	14.2	13.5	14.0	13.7	14.2	14.5
8H	13.1	13.7	13.4	13.9	14.2	13.4	13.9	13.7	14.2	14.4
12H	13.1	13.6	13.4	13.9	14.1	13.4	13.9	13.7	14.1	14.4
4H 2H	13.3	13.9	13.5	14.1	14.3	13.6	14.1	13.8	14.3	14.6
3H	13.1	13.6	13.4	13.9	14.1	13.4	13.9	13.7	14.2	14.4
4H	13.0	13.5	13.4	13.8	14.1	13.3	13.8	13.6	14.0	14.3
6H	12.9	13.3	13.3	13.7	14.0	13.2	13.6	13.6	13.9	14.3
8H	12.9	13.2	13.2	13.6	14.0	13.1	13.5	13.5	13.9	14.2
12H	12.8	13.2	13.2	13.5	13.9	13.1	13.4	13.5	13.8	14.2
8H 4H	12.9	13.2	13.2	13.6	14.0	13.1	13.5	13.5	13.9	14.2
6H	12.7	13.1	13.2	13.5	13.9	13.0	13.3	13.4	13.7	14.1
8H	12.7	13.0	13.1	13.4	13.8	13.0	13.2	13.4	13.7	14.1
12H	12.6	12.9	13.1	13.3	13.8	12.9	13.1	13.4	13.6	14.0
12H 4H	12.8	13.2	13.2	13.5	13.9	13.1	13.4	13.5	13.8	14.2
6H	12.7	13.0	13.1	13.4	13.8	13.0	13.2	13.4	13.7	14.1
8H	12.6	12.9	13.1	13.3	13.8	12.9	13.1	13.4	13.6	14.0
Variations with the observer position at spacings:										
S = 1.0H	+ 3.6 / -12.3					+ 3.2 / -11.5				
1.5H	+ 5.7 / - 7.9					+ 5.1 / - 7.4				
2.0H	+ 5.5 / -15.0					+ 5.4 / -15.4				

CIE Pub.117, 433.5 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -2.9)

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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	82	90	85	81	90	84	81	78
0.80	98	93	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			

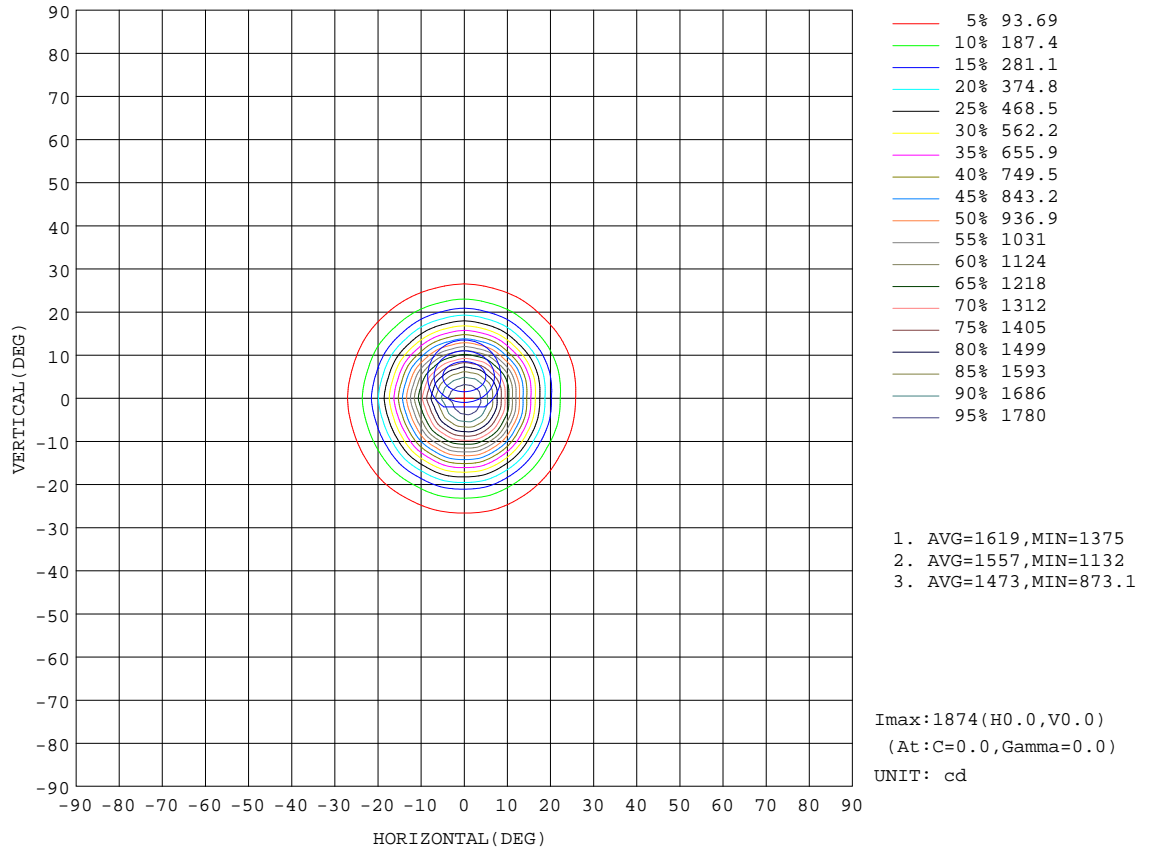
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**ISOCANDELA DIAGRAM**

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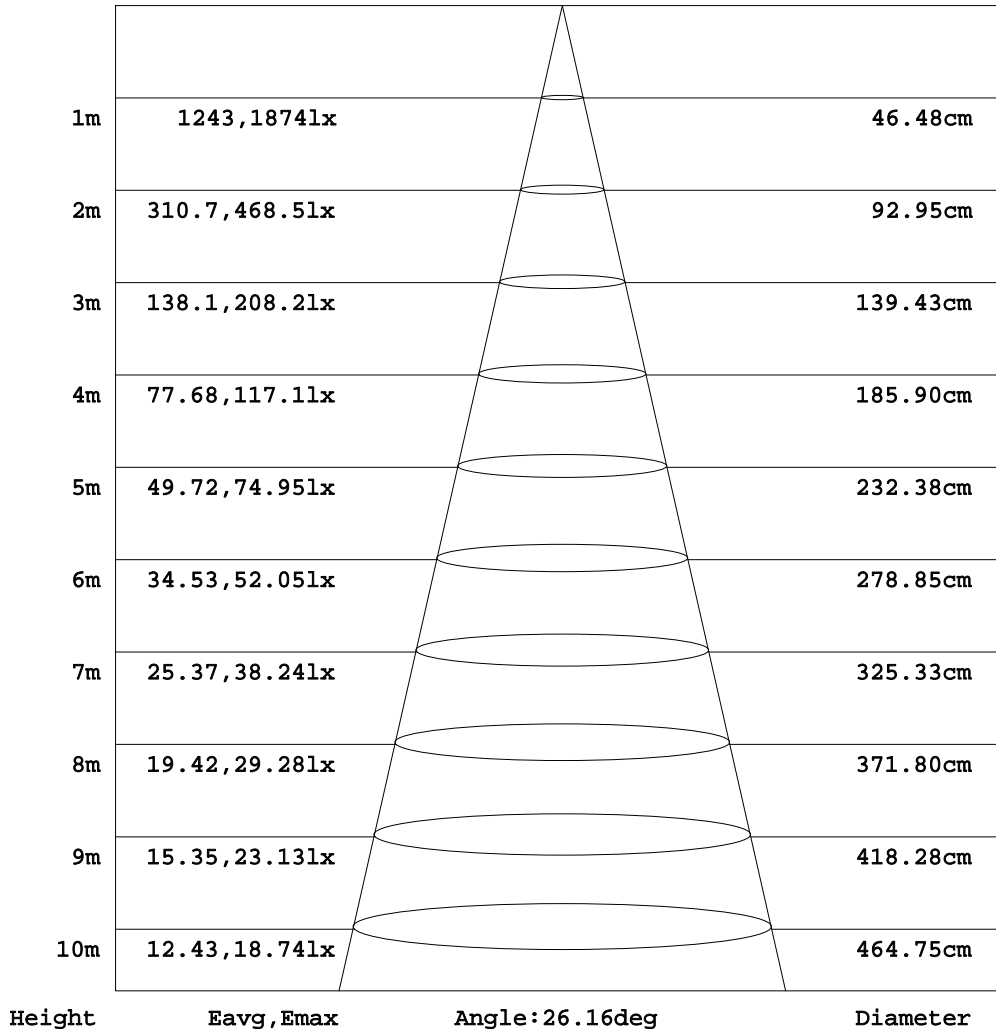
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**AAI Figure**

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Flux out:242.7 lm



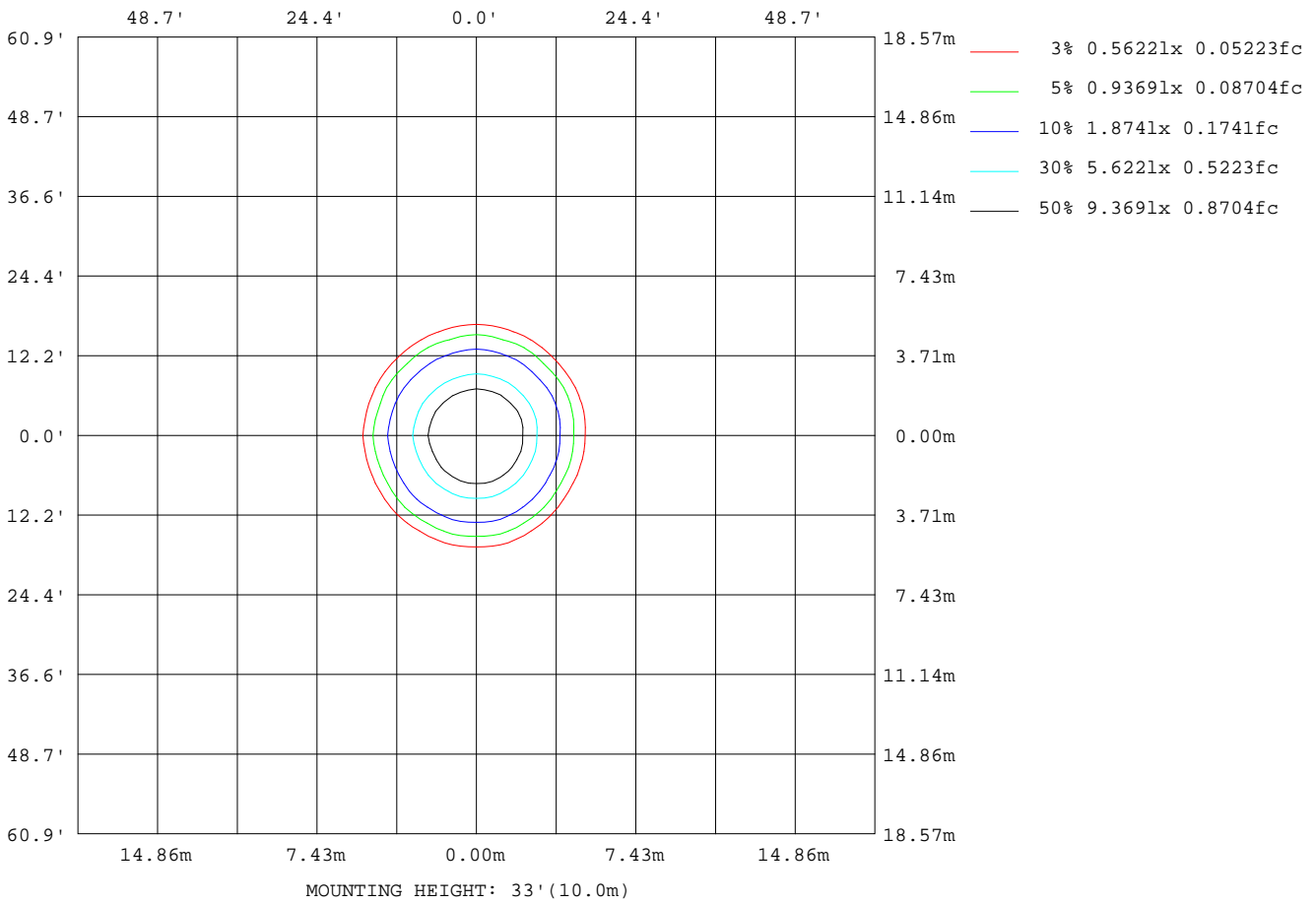
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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**ISOLUX DIAGRAM**

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LED Avg.L Report

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SPEC.:4000K	DIM.: φ30mm*H72mm	
MFR.: NEKO LIGHTING AG		

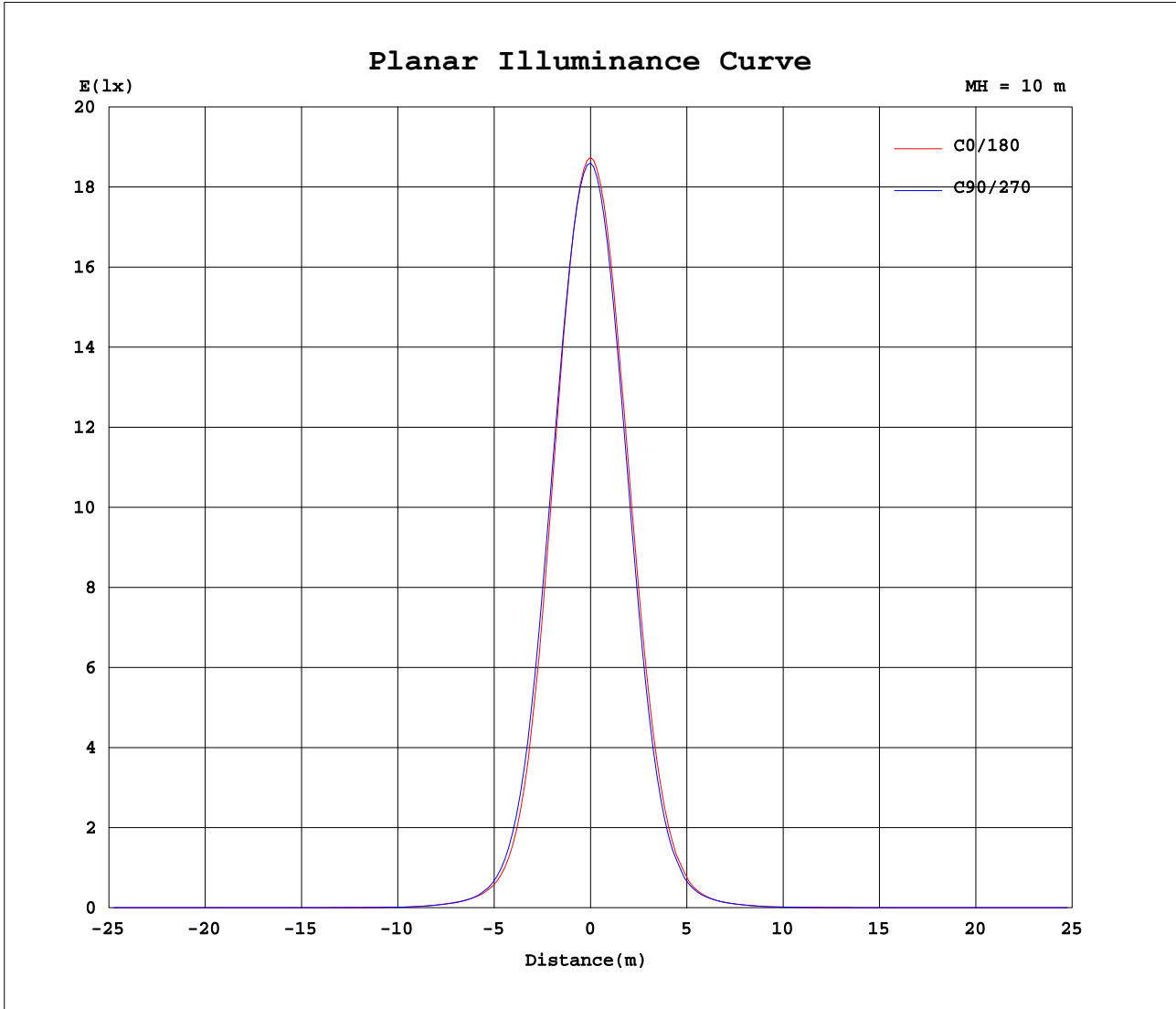
AvgL	cd/m2
L_0~180 (65) av	220
L_0~180 (75) av	84
L_0~180 (85) av	124
L_90~270 (65) av	223
L_90~270 (75) av	90
L_90~270 (85) av	178
L_45 (65) av	225
L_45 (75) av	93
L_45 (85) av	169

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Myles  
Test Date:2019-03-05

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: 2019-03-05

$\gamma$  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:



