

LED Linear Light FL300-SL300-1S-4W-830-30D



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.

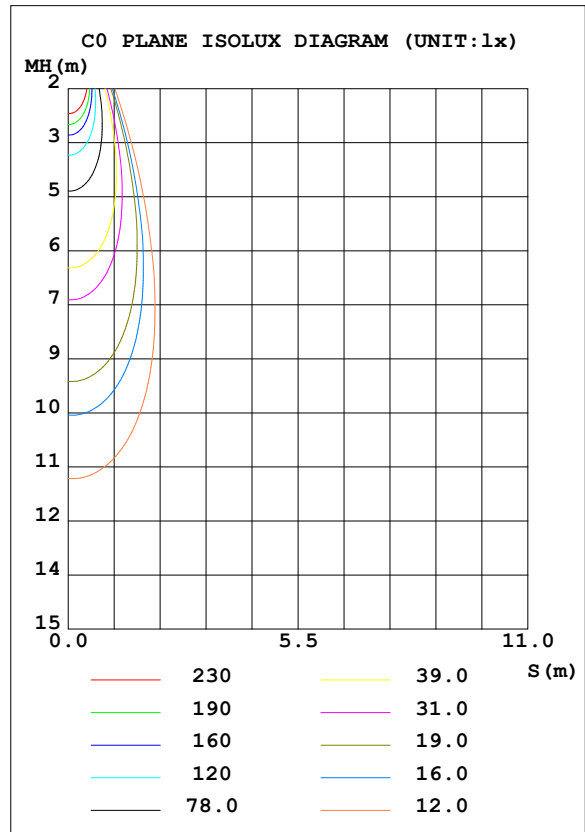
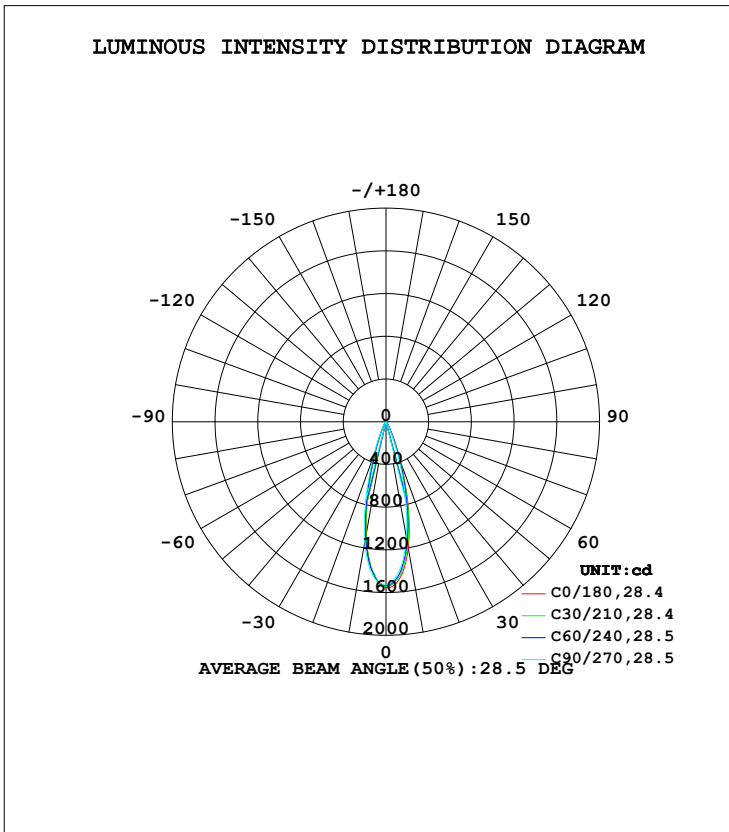
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Myles
Test Date: 2018-12-20

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:0.0310A P:5.450W PF:0.7900 Freq:49.90Hz Lamp Flux:407.06x1 lm		
NAME: FL300-SL300-1S-4W-830-30D	TYPE:Linear Light	SERIAL No.:
SPEC.:3000K	DIM.: φ54mm*H72mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 74.69 lm/W			
MODEL	OSRAM-3000K	I _{max} (cd)	1554	S/MH (C0/180)	0.44
NOMINAL POWER (W)	6	LOR (%)	100.0	S/MH (C90/270)	0.47
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	407.06	η UP, DN (C0-180)	0.0,50.0
NOMINAL FLUX (lm)	407.06	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



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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	1200	1169	1101	1055	1068	1069	1146	1175	0- 10	126.3	126.3	31,31
20	400.6	389.4	326.6	283.7	268.0	276.7	334.9	386.6	10- 20	188.9	315.2	77.4,77.4
30	63.83	62.20	49.69	46.32	44.64	48.74	52.37	63.70	20- 30	66.87	382.1	93.9,93.9
40	15.75	15.40	12.80	11.96	12.29	12.95	14.40	16.40	30- 40	17.71	399.8	98.2,98.2
50	3.767	3.968	3.469	3.234	3.150	3.258	3.736	4.046	40- 50	5.556	405.4	99.6,99.6
60	0.5770	0.5407	0.3558	0.2856	0.2655	0.3159	0.4508	0.6509	50- 60	1.588	407.0	100,100
70	0.0131	0.0044	0.0219	0.0044	0.0044	0.0131	0.0022	0.0525	60- 70	0.0963	407.0	100,100
80	0.0087	0.0044	0.0044	0.0044	0.0022	0.0066	0.0022	0.0066	70- 80	0.0071	407.1	100,100
90	0.0044	0.0066	0.0044	0.0066	0.0022	0.0022	0.0022	0.0044	80- 90	0.0044	407.1	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): 403.38 lm

%lum = 99.1%
%lamp = 99.1%

Conical surface Flux(120deg): 406.95 lm

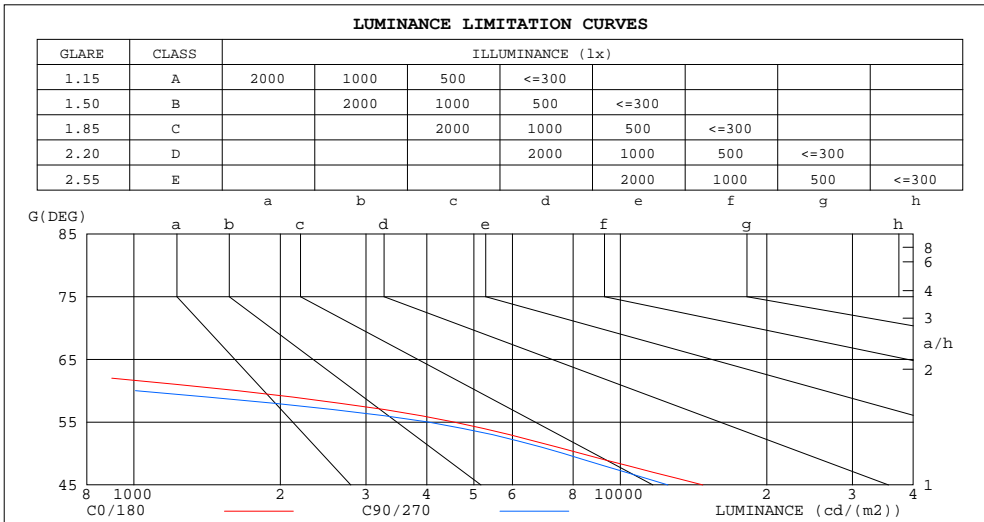
%lum = 100.0%
%lamp = 100.0%

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LUMINANCE LIMITATION CURVES

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SPEC.:3000K	DIM.: φ54mm*H72mm	
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LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	107	71
80	71	36
75	60	48
70	54	91
65	177	132
60	1633	1007
55	4547	4029
50	8296	7638
45	14770	12526

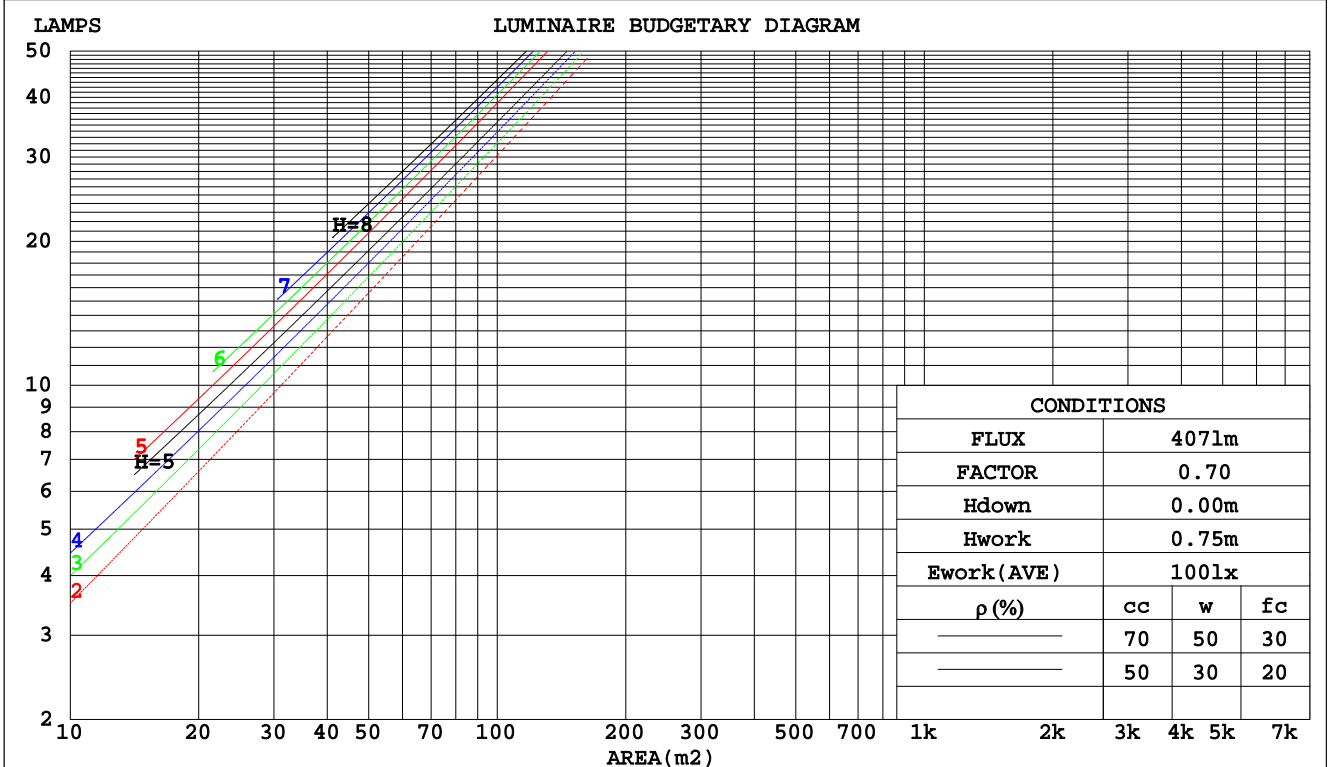
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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	1.00
1.0	1.13	1.11	1.09	1.11	1.09	1.07	1.07	1.05	1.04	1.03	1.02	1.01	.00	.99	.98	.96
2.0	1.07	1.04	1.02	1.06	1.03	1.00	1.02	1.00	.98	.00	.98	.96	.97	.96	.94	.93
3.0	1.02	.99	.96	1.01	.98	.95	.99	.96	.94	.96	.94	.92	.94	.92	.91	.89
4.0	.98	.94	.91	.97	.93	.91	.95	.92	.89	.93	.91	.88	.92	.89	.88	.86
5.0	.94	.90	.87	.94	.90	.87	.92	.89	.86	.90	.87	.85	.89	.87	.85	.83
6.0	.91	.87	.84	.90	.86	.83	.89	.85	.83	.88	.85	.82	.86	.84	.82	.81
7.0	.88	.83	.80	.87	.83	.80	.86	.82	.80	.85	.82	.79	.84	.81	.79	.78
8.0	.85	.81	.78	.84	.80	.77	.83	.80	.77	.83	.79	.77	.82	.79	.77	.76
9.0	.82	.78	.75	.82	.78	.75	.81	.77	.75	.80	.77	.75	.80	.77	.74	.73
10.0	.80	.76	.73	.79	.75	.73	.79	.75	.73	.78	.75	.72	.77	.74	.72	.71



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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	.140	.080	.025	.133	.076	.024	.121	.069	.022	.110	.063	.020	.099	.057	.019	
2.0	.130	.071	.022	.125	.069	.021	.115	.064	.020	.105	.059	.018	.097	.055	.017	
3.0	.122	.065	.019	.117	.063	.019	.109	.059	.018	.101	.055	.017	.094	.052	.016	
4.0	.115	.060	.018	.111	.058	.017	.104	.055	.016	.097	.052	.016	.091	.049	.015	
5.0	.108	.055	.016	.105	.054	.016	.099	.051	.015	.093	.049	.015	.088	.047	.014	
6.0	.103	.051	.015	.100	.050	.015	.094	.048	.014	.089	.046	.014	.085	.045	.013	
7.0	.098	.048	.014	.095	.047	.014	.091	.046	.013	.086	.044	.013	.082	.043	.013	
8.0	.093	.046	.013	.091	.045	.013	.087	.043	.012	.083	.042	.012	.080	.041	.012	
9.0	.089	.043	.012	.087	.043	.012	.084	.041	.012	.080	.040	.012	.077	.039	.011	
10.0	.086	.041	.011	.084	.041	.011	.081	.040	.011	.078	.039	.011	.075	.038	.011	

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	.169	.158	.148	.144	.135	.127	.099	.093	.088	.057	.054	.051	.018	.017	.017	
2.0	.151	.133	.118	.129	.114	.102	.088	.079	.071	.051	.046	.042	.016	.015	.014	
3.0	.136	.113	.095	.117	.098	.083	.080	.068	.058	.046	.040	.034	.015	.013	.011	
4.0	.124	.098	.078	.106	.085	.068	.073	.059	.048	.042	.035	.028	.014	.011	.009	
5.0	.113	.086	.065	.097	.074	.057	.067	.052	.040	.039	.030	.024	.013	.010	.008	
6.0	.105	.076	.055	.090	.066	.048	.062	.046	.034	.036	.027	.020	.012	.009	.007	
7.0	.097	.068	.047	.084	.059	.041	.058	.041	.029	.034	.024	.017	.011	.008	.006	
8.0	.091	.061	.040	.078	.053	.035	.054	.037	.025	.031	.022	.015	.010	.007	.005	
9.0	.085	.055	.035	.073	.048	.031	.051	.034	.022	.030	.020	.013	.010	.007	.004	
10.0	.080	.051	.031	.069	.044	.027	.048	.031	.019	.028	.018	.011	.009	.006	.004	

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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]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:221.1V I:0.0310A P:5.450W PF:0.7900 Freq:49.90Hz Lamp Flux:407.06x1 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	16.0	16.7	16.2	16.8	17.0	15.1	15.8	15.3	15.9	16.1
3H	15.8	16.5	16.1	16.6	16.8	14.9	15.6	15.2	15.8	15.9
4H	15.7	16.3	16.0	16.6	16.8	14.9	15.5	15.1	15.7	15.9
6H	15.7	16.2	15.9	16.5	16.7	14.8	15.3	15.1	15.6	15.8
8H	15.6	16.2	15.9	16.4	16.7	14.7	15.3	15.0	15.5	15.8
12H	15.6	16.1	15.9	16.4	16.6	14.7	15.2	15.0	15.5	15.7
4H 2H	15.8	16.4	16.0	16.6	16.8	14.9	15.5	15.1	15.7	15.9
3H	15.6	16.1	15.9	16.4	16.6	14.7	15.2	15.0	15.5	15.8
4H	15.5	16.0	15.8	16.3	16.6	14.6	15.1	15.0	15.4	15.7
6H	15.4	15.8	15.8	16.1	16.5	14.5	14.9	14.9	15.3	15.6
8H	15.3	15.7	15.7	16.1	16.4	14.5	14.9	14.8	15.2	15.6
12H	15.3	15.6	15.7	16.0	16.4	14.4	14.8	14.8	15.1	15.5
8H 4H	15.3	15.7	15.7	16.1	16.4	14.5	14.9	14.8	15.2	15.6
6H	15.2	15.6	15.6	15.9	16.4	14.3	14.7	14.8	15.1	15.5
8H	15.2	15.5	15.6	15.9	16.3	14.3	14.6	14.7	15.0	15.4
12H	15.1	15.4	15.6	15.8	16.3	14.2	14.5	14.7	14.9	15.4
12H 4H	15.3	15.6	15.7	16.0	16.4	14.4	14.8	14.8	15.1	15.5
6H	15.2	15.5	15.6	15.9	16.3	14.3	14.6	14.7	15.0	15.4
8H	15.1	15.4	15.6	15.8	16.3	14.2	14.5	14.7	14.9	15.4
Variations with the observer position at spacings:										
S = 1.0H	+ 3.1 / -10.3					+ 2.7 / -10.8				
1.5H	+ 4.7 / - 6.2					+ 4.3 / - 5.9				
2.0H	+ 5.4 / -17.3					+ 5.1 / -20.7				

CIE Pub.117, 407.1 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -3.1)

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UTILIZATION FACTORS TABLE

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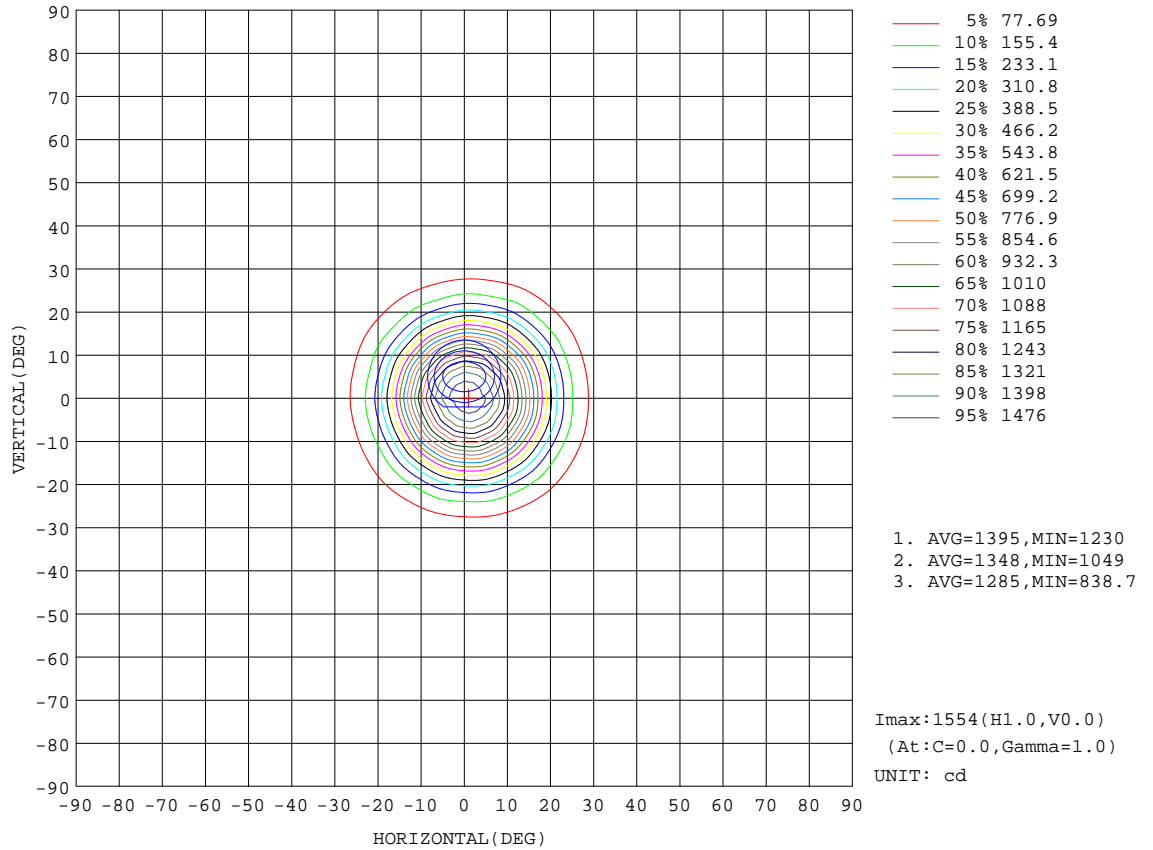
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	90	85	81	90	84	81	89	84	81	78
0.80	97	92	89	97	92	89	96	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	106	104	107	104	102	96
3.00	113	109	107	111	108	106	107	105	104	97
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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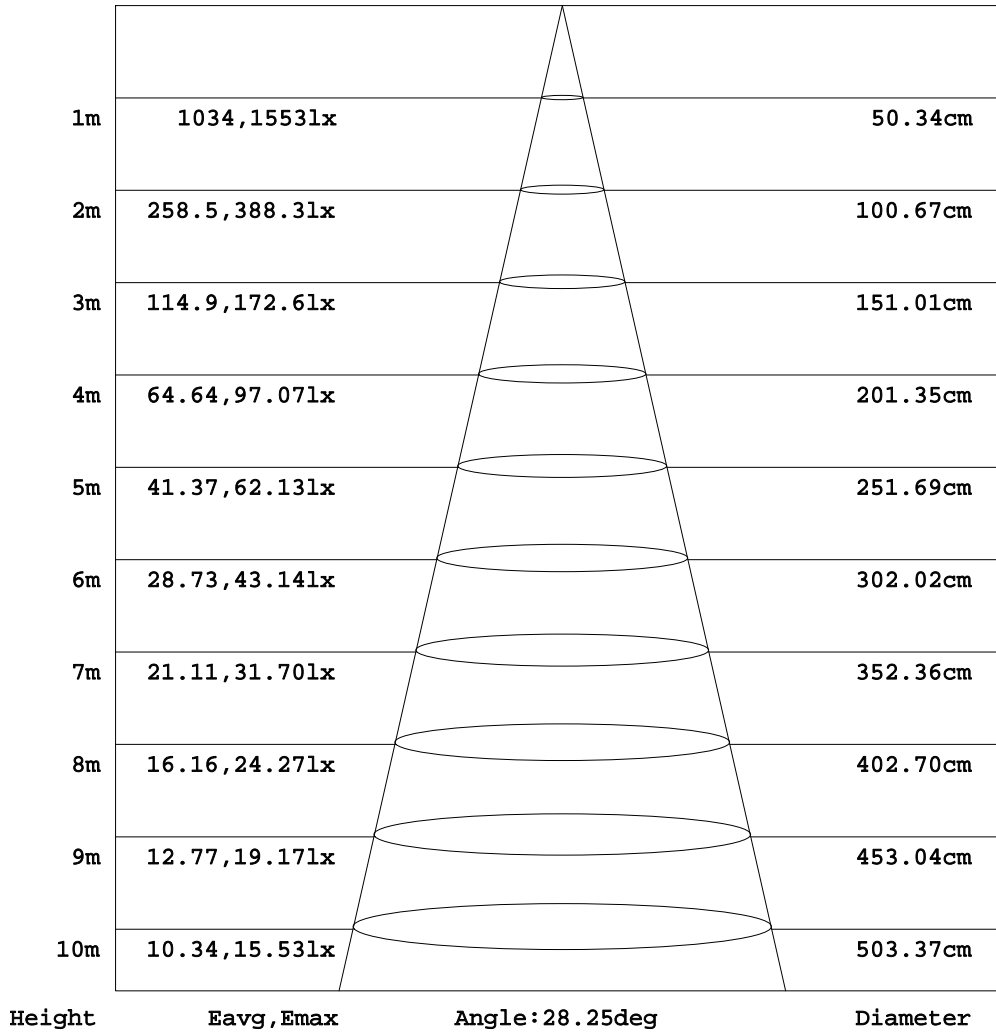
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AAI Figure

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Flux out:233.3 lm



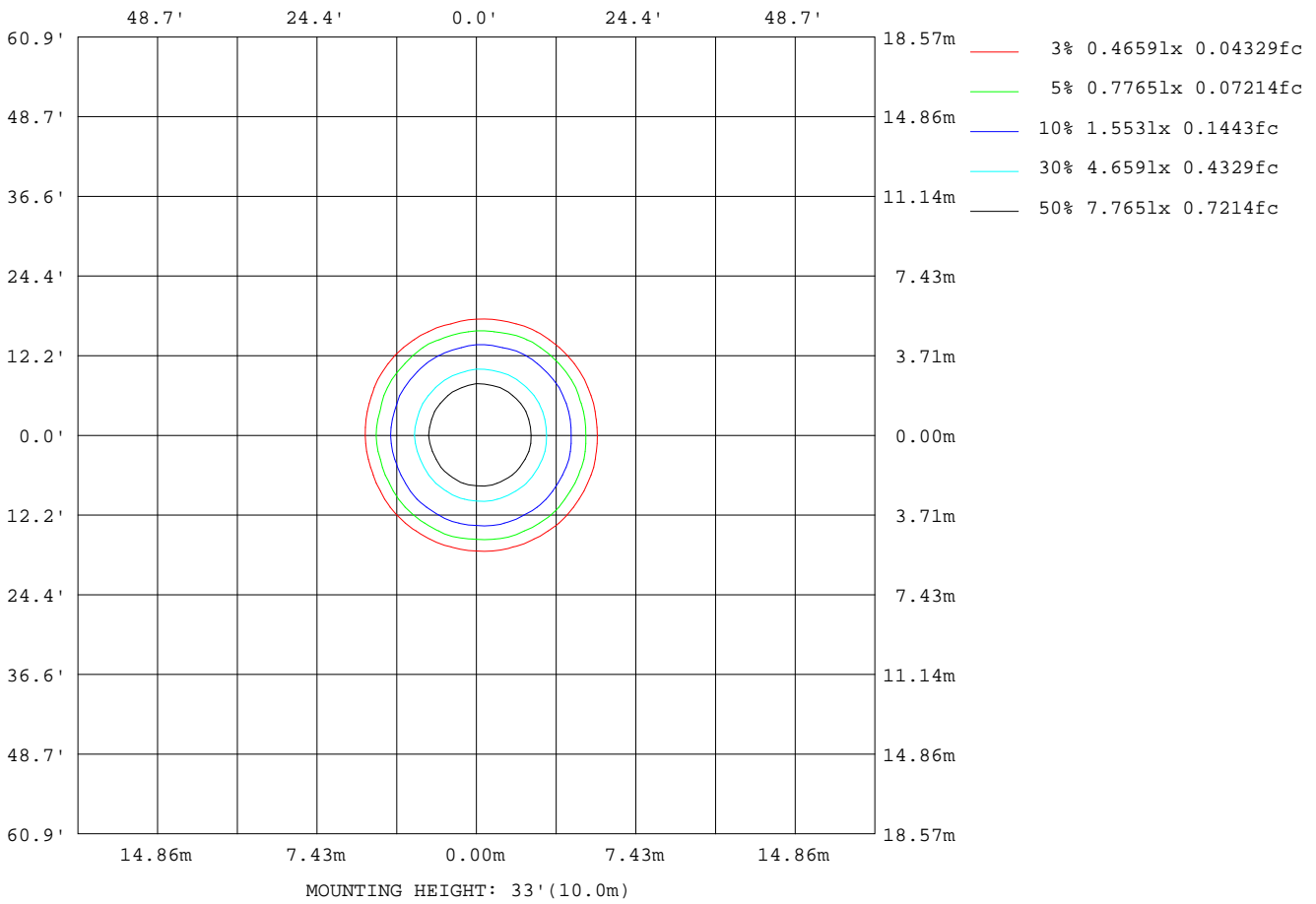
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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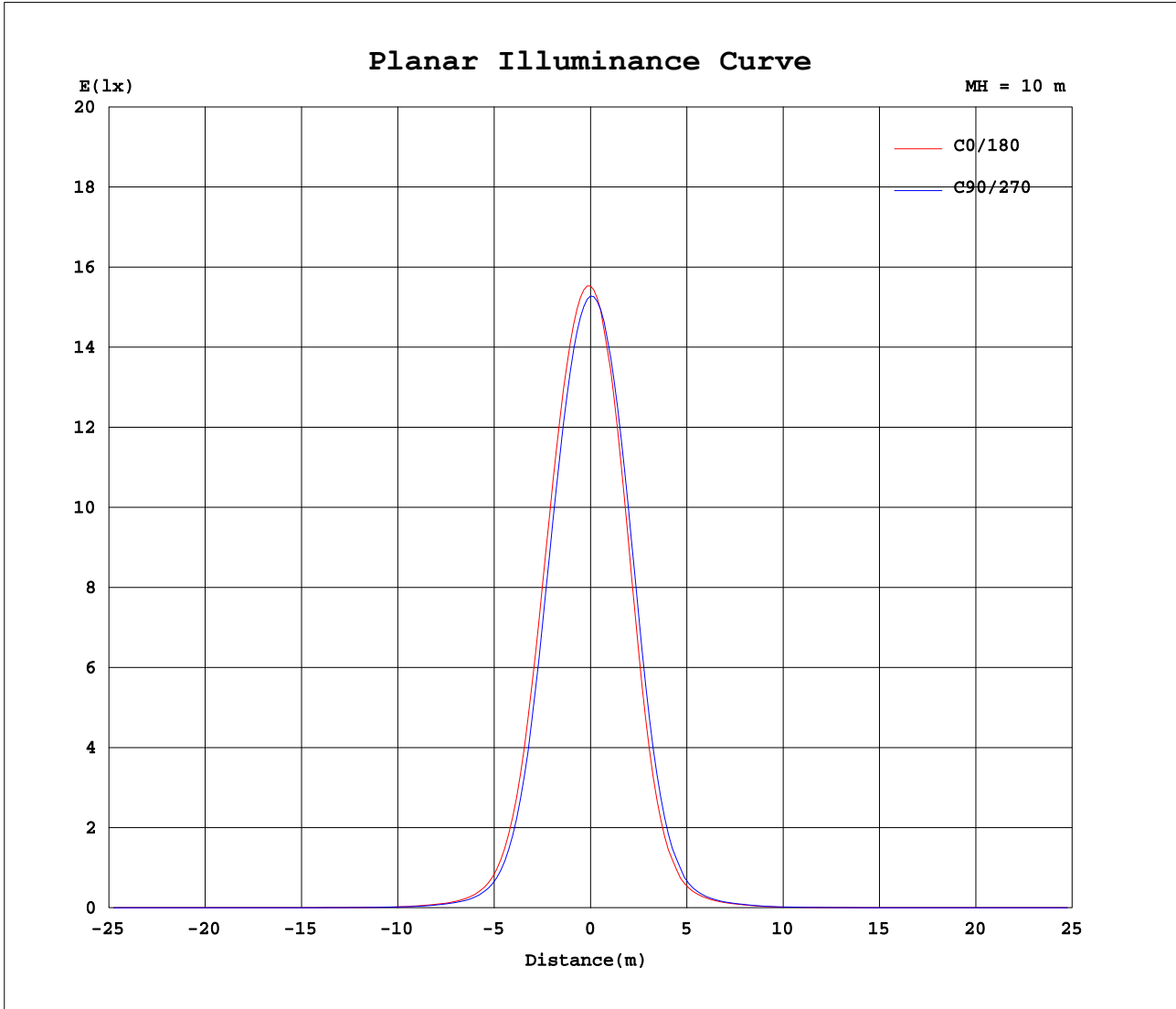
AvgL	cd/m2
L_0~180 (65) av	96
L_0~180 (75) av	42
L_0~180 (85) av	71
L_90~270 (65) av	99
L_90~270 (75) av	30
L_90~270 (85) av	53
L_45 (65) av	118
L_45 (75) av	33
L_45 (85) av	89

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Myles
Test Date:2018-12-20

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: 2018-12-20

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:221.1V I:0.0310A P:5.450W PF:0.7900 Freq:49.90Hz Lamp Flux:407.06x1 lm		
NAME: FL300-SL300-1S-4W-830-30D	TYPE:Linear Light	SERIAL No.:
SPEC.:3000K	DIM.: φ54mm*H72mm	
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	1553	1546	1542	1537	1535	1531	1528	1526	1523	1523	1520	1520	1553	1546	1542	1537	1535	1531	1528
5	1474	1471	1453	1442	1433	1425	1409	1397	1387	1388	1375	1383	1409	1406	1406	1409	1421	1424	1436
10	1200	1201	1172	1169	1141	1136	1101	1093	1058	1055	1028	1036	1068	1050	1075	1069	1103	1109	1146
15	795	803	777	774	741	728	689	675	644	627	596	594	614	605	623	630	661	670	714
20	401	407	392	389	364	355	327	317	292	284	262	258	268	261	276	277	298	304	335
25	160	165	158	160	146	141	125	127	112	109	99.6	96.5	100	100	108	109	121	117	133
30	63.8	64.1	63.6	62.2	58.3	54.3	49.7	48.7	46.4	46.3	43.5	42.7	44.6	45.0	48.2	48.7	49.9	49.4	52.4
35	29.6	30.0	29.4	29.4	27.3	26.1	24.4	24.3	23.8	24.0	22.9	22.6	23.7	24.0	25.5	25.6	25.9	25.5	26.6
40	15.7	15.9	15.4	15.4	14.3	13.8	12.8	12.5	12.0	12.0	11.3	11.5	12.3	12.2	12.8	13.0	13.6	13.6	14.4
45	7.38	7.49	7.31	7.27	6.86	6.67	6.26	6.15	5.90	5.82	5.62	5.55	5.87	5.79	5.98	5.93	6.19	6.31	6.73
50	3.77	3.93	3.94	3.97	3.79	3.71	3.47	3.39	3.27	3.23	3.13	3.01	3.15	3.14	3.26	3.26	3.39	3.51	3.74
55	1.84	1.96	1.99	2.01	1.87	1.79	1.63	1.60	1.50	1.44	1.34	1.31	1.39	1.39	1.53	1.53	1.67	1.72	1.87
60	0.58	0.60	0.54	0.54	0.47	0.42	0.36	0.34	0.33	0.29	0.26	0.24	0.27	0.26	0.29	0.32	0.37	0.39	0.45
65	0.05	0.02	0.04	0.02	0.03	0.02	0.04	0.03	0.05	0.01	0.03	0.01	0.00	0.02	0.00	0.02	0.01	0.03	0.02
70	0.01	0.00	0.01	0.00	0.01	0.00	0.02	0.00	0.03	0.00	0.01	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.00
75	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.00
80	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00
85	0.01	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Myles
Test Date:2018-12-20

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:221.1V I:0.0310A P:5.450W PF:0.7900 Freq:49.90Hz Lamp Flux:407.06x1 lm		
NAME: FL300-SL300-1S-4W-830-30D	TYPE:Linear Light	SERIAL No.:
SPEC.:3000K	DIM.: φ54mm*H72mm	
MFR.: NEKO LIGHTING AG		

C (DEG) \ γ (DEG)	285	300	315	330	345														
0	1526	1523	1523	1520	1520														
5	1440	1444	1449	1449	1451														
10	1150	1178	1175	1198	1189														
15	726	770	777	804	794														
20	347	380	387	410	405														
25	135	159	157	167	162														
30	56.9	60.9	63.7	64.9	64.0														
35	27.4	29.9	30.3	30.6	29.4														
40	14.9	16.2	16.4	16.4	15.7														
45	6.94	7.49	7.58	7.69	7.34														
50	3.82	4.01	4.05	4.05	3.78														
55	1.93	2.05	2.06	2.07	1.89														
60	0.50	0.61	0.65	0.66	0.62														
65	0.05	0.05	0.09	0.06	0.06														
70	0.02	0.01	0.05	0.01	0.02														
75	0.01	0.00	0.01	0.00	0.00														
80	0.01	0.00	0.01	0.00	0.01														
85	0.00	0.00	0.00	0.00	0.00														
90	0.00	0.00	0.00	0.00	0.00														

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Myles
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γ Range: 0 - 90DEG
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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
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