

LED Linear Light FL300-SL300-2S-8W-840-55D



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.

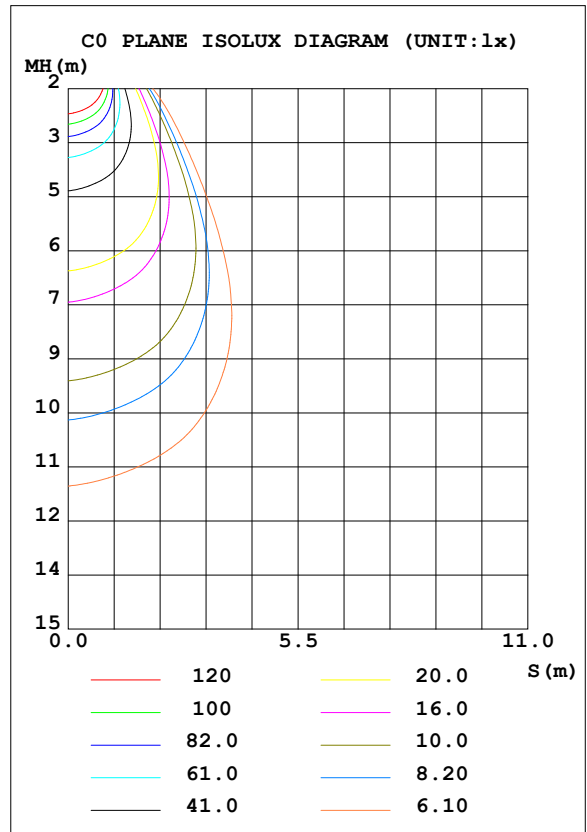
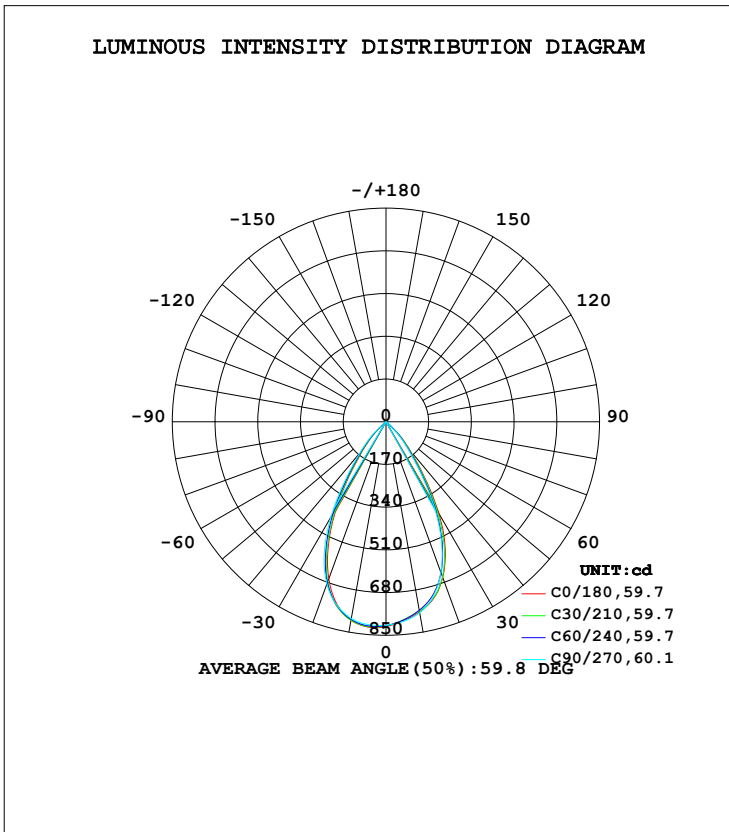
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Myles
Test Date: 2019-03-15

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:221.0V I:0.0491A P:9.980W PF:0.9041 Freq:49.90Hz Lamp Flux:746.544x1 lm		
NAME: FL300-SL300-2S-8W-840-55D	TYPE:Linear Light	SERIAL No.:
SPEC.:4000K	DIM.: φ31mm*H50mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 74.80 lm/W			
MODEL	OSRAM-4000K	I _{max} (cd)	820.8	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)	746.54	η UP, DN (C0-180)	0.0, 48.6
NOMINAL FLUX (lm)	746.544	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 51.4
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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ZONAL FLUX DIAGRAM

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γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	768.6	763.0	771.5	790.5	802.0	800.2	795.4	777.7	0- 10	76.08	76.08	10.2,10.2
20	659.5	652.3	638.6	660.7	666.0	677.0	687.9	671.4	10- 20	206.4	282.4	37.8,37.8
30	420.5	398.7	374.7	382.4	391.6	407.3	440.8	424.6	20- 30	248.4	530.9	71.1,71.1
40	149.1	137.4	124.2	128.9	133.6	142.3	159.9	154.5	30- 40	158.7	689.5	92.4,92.4
50	14.30	11.08	9.012	8.817	9.632	10.85	15.67	15.57	40- 50	51.95	741.5	99.3,99.3
60	1.790	1.420	1.132	1.103	1.242	1.409	1.855	1.854	50- 60	4.397	745.9	99.9,99.9
70	0.2036	0.1681	0.1795	0.1704	0.1835	0.2188	0.2118	0.2210	60- 70	0.4907	746.4	100,100
80	0.0766	0.0524	0.0679	0.0524	0.0458	0.0722	0.0632	0.0766	70- 80	0.1249	746.5	100,100
90	0.0350	0.0350	0.0372	0.0372	0.0175	0.0153	0.0153	0.0175	80- 90	0.0414	746.5	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): 727.95 lm

%lum = 97.5%

%lamp = 97.5%

Conical surface Flux(120deg): 745.89 lm

%lum = 99.9%

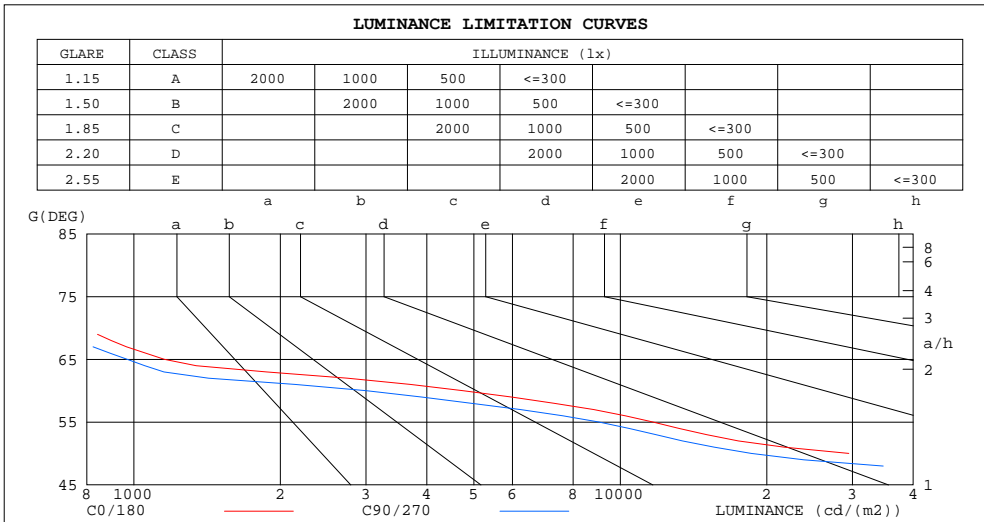
%lamp = 99.9%

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LUMINANCE LIMITATION CURVES

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LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	732	699
80	585	518
75	628	572
70	789	696
65	1155	968
60	4744	3001
55	11673	9043
50	29481	18585
45	144631	101997

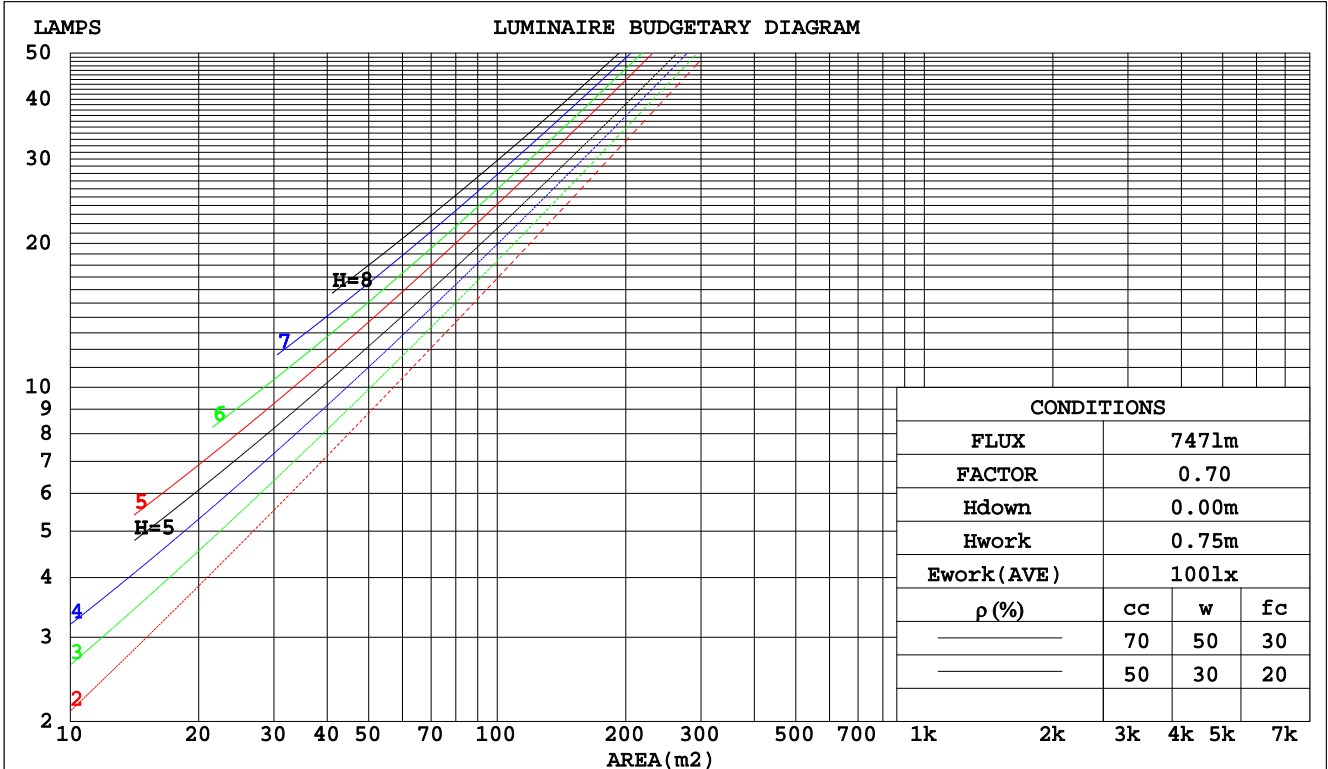
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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	1.11	1.08	1.06	1.09	1.06	1.04	1.05	1.03	1.01	1.01	.00	.98	.97	.96	.95	.94
2.0	1.03	.99	.96	1.01	.98	.95	.98	.95	.93	.95	.93	.91	.92	.91	.89	.87
3.0	.96	.91	.87	.95	.90	.87	.92	.88	.85	.90	.87	.84	.88	.85	.83	.81
4.0	.90	.84	.80	.89	.84	.80	.87	.82	.79	.85	.81	.78	.83	.80	.77	.75
5.0	.84	.78	.74	.83	.78	.74	.81	.77	.73	.80	.76	.72	.78	.75	.72	.70
6.0	.79	.73	.69	.78	.72	.68	.77	.72	.68	.75	.71	.67	.74	.70	.67	.66
7.0	.74	.68	.64	.73	.68	.64	.72	.67	.63	.71	.66	.63	.70	.66	.63	.61
8.0	.70	.64	.60	.69	.64	.60	.68	.63	.59	.67	.62	.59	.66	.62	.59	.57
9.0	.66	.60	.56	.65	.60	.56	.64	.59	.56	.63	.59	.55	.63	.58	.55	.54
10.0	.62	.56	.53	.62	.56	.52	.61	.56	.52	.60	.55	.52	.59	.55	.52	.51



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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	.177	.101	.032	.170	.097	.031	.158	.090	.029	.146	.084	.027	.135	.078	.025	
2.0	.170	.093	.029	.164	.090	.028	.154	.085	.027	.144	.081	.025	.135	.076	.024	
3.0	.162	.086	.026	.157	.084	.025	.148	.080	.024	.140	.077	.024	.132	.073	.023	
4.0	.155	.080	.024	.151	.079	.023	.143	.076	.023	.136	.073	.022	.129	.070	.021	
5.0	.148	.075	.022	.144	.074	.022	.138	.072	.021	.131	.069	.021	.125	.067	.020	
6.0	.141	.071	.020	.138	.070	.020	.132	.068	.020	.127	.066	.019	.121	.064	.019	
7.0	.135	.067	.019	.133	.066	.019	.127	.064	.019	.122	.063	.018	.118	.061	.018	
8.0	.130	.063	.018	.127	.063	.018	.123	.061	.017	.118	.060	.017	.114	.058	.017	
9.0	.124	.060	.017	.122	.060	.017	.118	.058	.017	.114	.057	.016	.110	.056	.016	
10.0	.120	.057	.016	.118	.057	.016	.114	.056	.016	.110	.055	.016	.107	.054	.015	

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	.171	.157	.145	.146	.135	.125	.100	.093	.086	.058	.054	.050	.018	.017	.016	
2.0	.156	.132	.113	.134	.114	.097	.092	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.144	.114	.090	.123	.098	.078	.085	.068	.054	.049	.040	.032	.016	.013	.011	
4.0	.134	.099	.072	.115	.085	.063	.079	.060	.044	.046	.035	.026	.015	.011	.009	
5.0	.125	.087	.059	.107	.076	.052	.074	.053	.037	.043	.031	.022	.014	.010	.007	
6.0	.118	.078	.050	.101	.068	.043	.070	.047	.031	.041	.028	.018	.013	.009	.006	
7.0	.111	.071	.042	.096	.061	.036	.066	.043	.026	.038	.025	.015	.012	.008	.005	
8.0	.106	.064	.036	.091	.056	.031	.063	.039	.022	.037	.023	.013	.012	.008	.004	
9.0	.101	.059	.031	.087	.051	.027	.060	.036	.019	.035	.021	.011	.011	.007	.004	
10.0	.096	.055	.027	.083	.048	.024	.058	.034	.017	.034	.020	.010	.011	.007	.003	

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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	26.1	27.0	26.3	27.2	27.4	25.3	26.3	25.5	26.4	26.6
3H	25.9	26.8	26.2	27.0	27.2	25.1	26.0	25.4	26.2	26.4
4H	25.8	26.6	26.1	26.9	27.1	25.0	25.9	25.3	26.1	26.3
6H	25.7	26.5	26.0	26.7	27.0	25.0	25.7	25.3	26.0	26.2
8H	25.7	26.4	26.0	26.7	26.9	24.9	25.7	25.2	25.9	26.2
12H	25.6	26.3	25.9	26.6	26.9	24.9	25.6	25.2	25.8	26.1
4H 2H	25.8	26.6	26.1	26.9	27.1	25.1	25.9	25.3	26.1	26.3
3H	25.6	26.3	25.9	26.6	26.9	24.9	25.6	25.2	25.8	26.1
4H	25.5	26.2	25.9	26.5	26.8	24.8	25.4	25.1	25.7	26.0
6H	25.4	26.0	25.8	26.3	26.7	24.7	25.2	25.1	25.6	25.9
8H	25.4	25.9	25.8	26.3	26.6	24.6	25.2	25.0	25.5	25.9
12H	25.3	25.8	25.7	26.2	26.6	24.6	25.1	25.0	25.4	25.8
8H 4H	25.4	25.9	25.8	26.3	26.6	24.6	25.2	25.0	25.5	25.9
6H	25.3	25.7	25.7	26.1	26.5	24.5	25.0	25.0	25.3	25.8
8H	25.2	25.6	25.7	26.0	26.5	24.5	24.9	24.9	25.3	25.7
12H	25.2	25.5	25.6	25.9	26.4	24.4	24.7	24.9	25.2	25.7
12H 4H	25.3	25.8	25.7	26.2	26.6	24.6	25.1	25.0	25.4	25.8
6H	25.2	25.6	25.7	26.0	26.5	24.5	24.9	24.9	25.3	25.7
8H	25.2	25.5	25.6	25.9	26.4	24.4	24.7	24.9	25.2	25.7
Variations with the observer position at spacings:										
S = 1.0H	+ 3.1 / -18.1					+ 2.7 / -19.3				
1.5H	+ 5.2 / -15.3					+ 5.1 / -14.8				
2.0H	+ 8.5 / -21.3					+ 8.4 / -19.4				

CIE Pub.117, 746.5 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.0)

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UTILIZATION FACTORS TABLE

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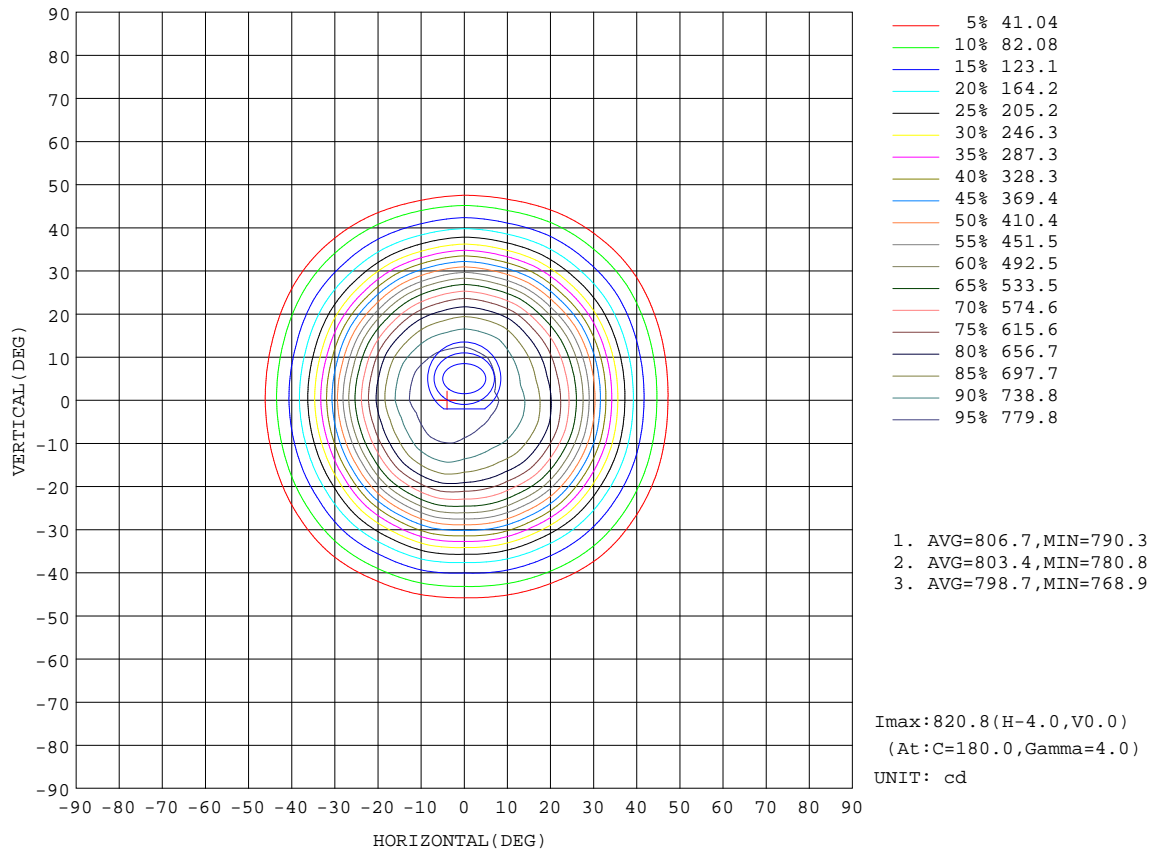
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	87	80	76	86	80	76	85	80	76	73
0.80	94	88	85	94	88	85	93	88	84	80
1.00	99	93	90	98	93	90	97	93	89	85
1.25	103	98	95	102	97	94	100	96	93	89
1.50	106	101	98	105	100	97	102	99	96	92
2.00	109	105	101	107	103	101	105	102	99	94
2.50	110	107	104	109	105	103	106	103	101	95
3.00	112	108	106	110	107	105	107	104	102	96
4.00	114	111	109	112	109	107	108	106	105	98
5.00	115	113	111	113	111	109	109	108	106	99
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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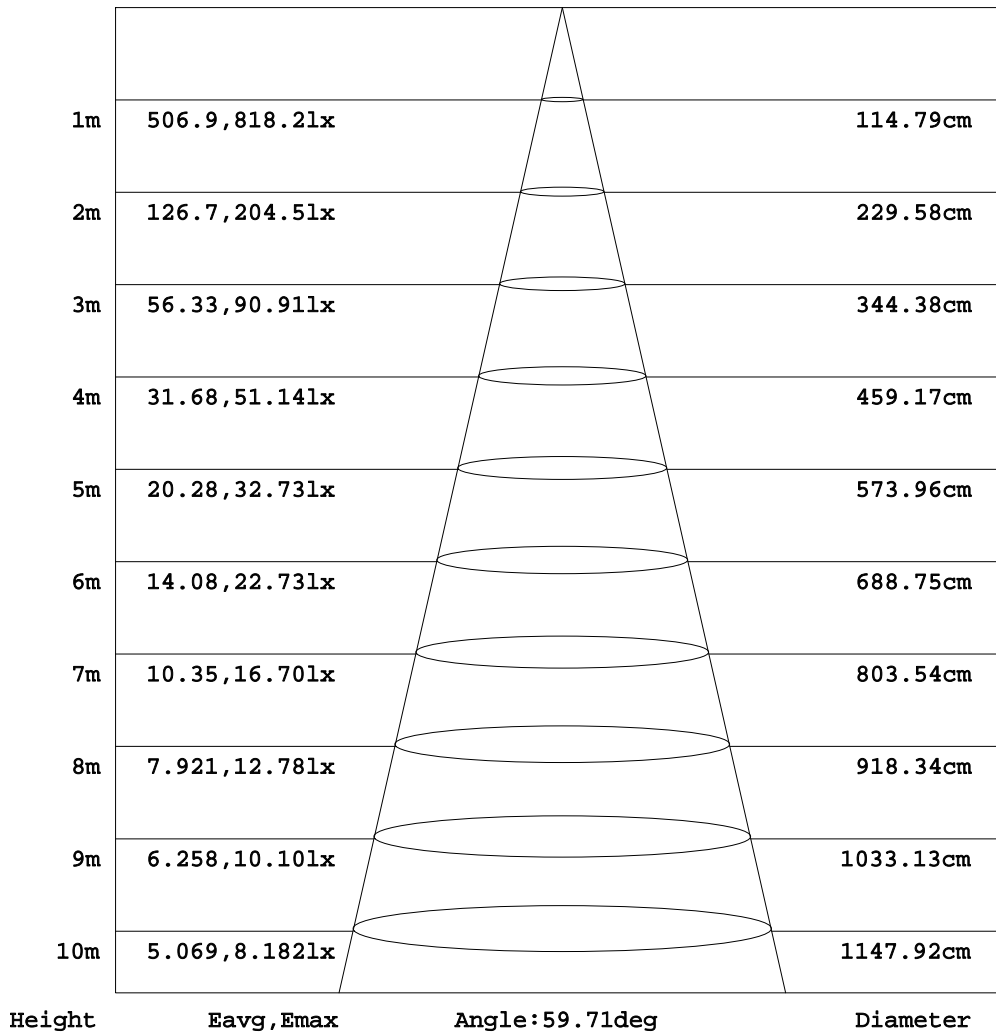
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AAI Figure

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Flux out:530.9 lm



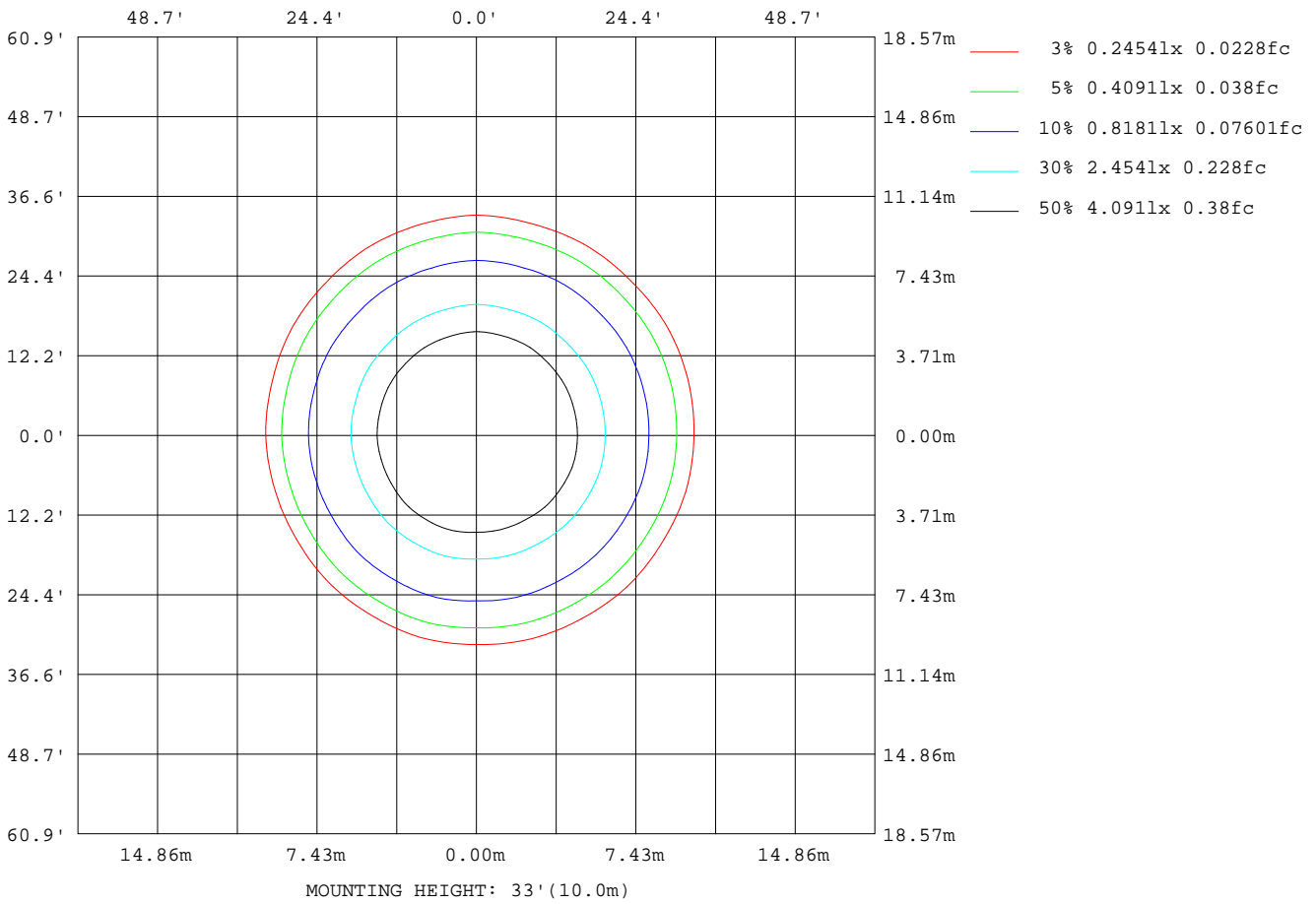
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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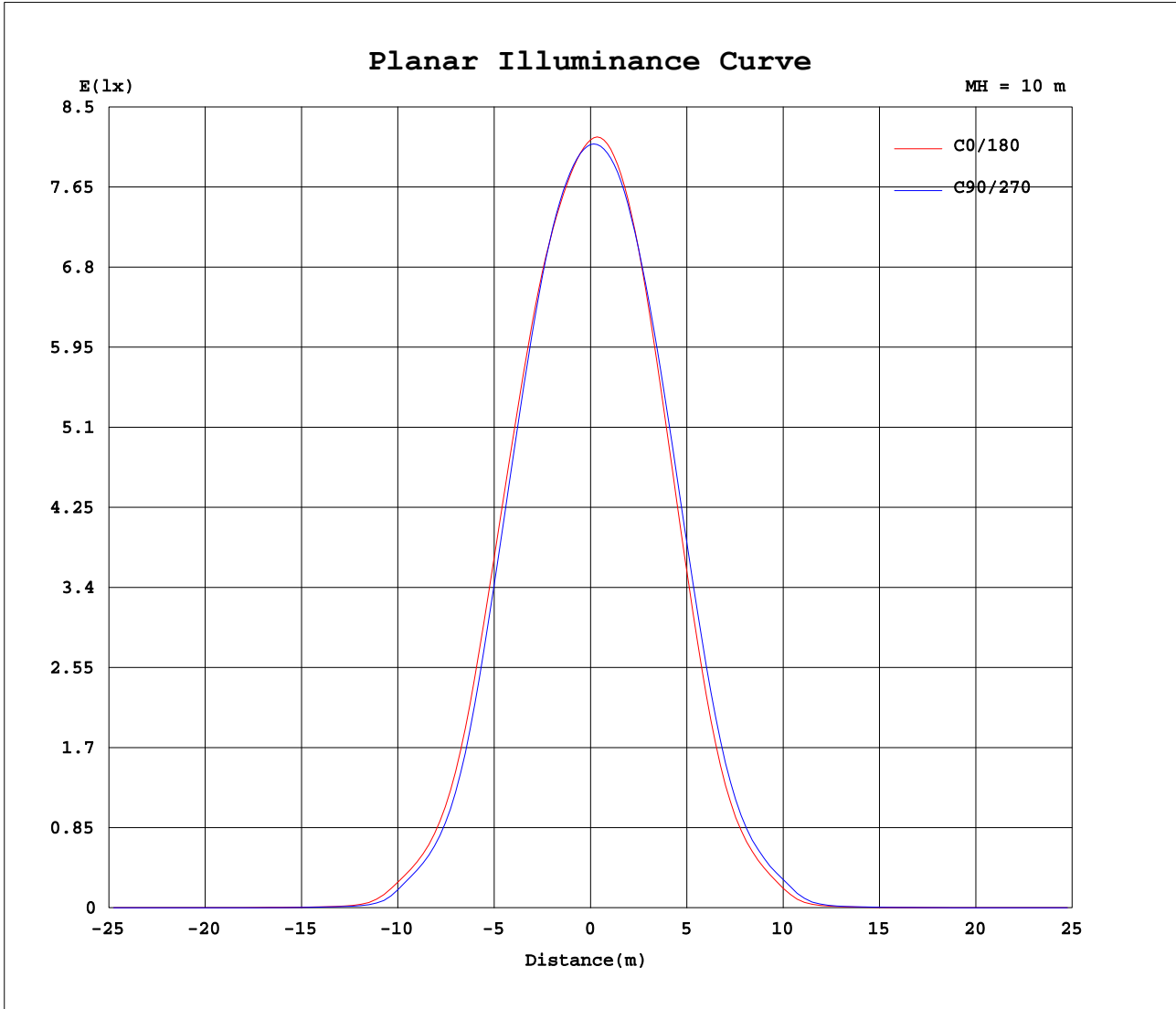
AvgL	cd/m2
L_0~180 (65) av	1105
L_0~180 (75) av	571
L_0~180 (85) av	483
L_90~270 (65) av	1094
L_90~270 (75) av	582
L_90~270 (85) av	548
L_45 (65) av	1101
L_45 (75) av	588
L_45 (85) av	549

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

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:0.0491A P:9.980W PF:0.9041 Freq:49.90Hz Lamp Flux:746.544x1 lm		
NAME: FL300-SL300-2S-8W-840-55D	TYPE:Linear Light	SERIAL No.:
SPEC.:4000K	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	815	814	813	812	811	811	810	809	809	808	808	807	815	814	813	812	811	811	810
5	795	793	791	792	792	795	798	802	805	808	809	810	820	819	818	817	815	813	810
10	769	767	764	763	762	766	771	782	786	790	790	791	802	802	803	800	799	796	795
15	730	731	727	723	716	717	722	738	743	746	740	741	753	755	759	757	757	753	756
20	660	664	658	652	640	638	639	654	657	661	654	654	666	668	678	677	682	681	688
25	558	559	549	543	529	526	522	534	532	536	529	532	543	543	554	557	567	571	582
30	421	418	406	399	385	382	375	385	379	382	376	380	392	392	403	407	422	427	441
35	263	262	249	244	233	230	223	232	227	230	224	229	237	239	249	252	264	269	280
40	149	148	140	137	131	130	124	130	126	129	124	129	134	134	141	142	150	153	160
45	77.2	75.0	68.8	67.2	60.4	59.1	54.4	56.2	52.5	53.7	51.4	53.8	58.7	59.8	66.9	69.0	76.4	80.0	84.8
50	14.3	13.5	11.8	11.1	10.1	9.91	9.01	9.36	8.68	8.82	8.79	9.12	9.63	9.52	10.5	10.9	12.5	13.3	15.7
55	5.05	4.82	4.48	4.40	4.24	4.15	3.91	3.93	3.68	3.75	3.73	3.86	4.09	4.08	4.27	4.39	4.77	4.92	5.17
60	1.79	1.70	1.52	1.42	1.30	1.27	1.13	1.14	1.05	1.10	1.09	1.14	1.24	1.23	1.34	1.41	1.60	1.71	1.86
65	0.37	0.34	0.34	0.31	0.32	0.29	0.31	0.30	0.32	0.31	0.33	0.32	0.34	0.36	0.36	0.38	0.38	0.40	0.39
70	0.20	0.18	0.19	0.17	0.18	0.16	0.18	0.17	0.19	0.17	0.19	0.18	0.18	0.21	0.20	0.22	0.21	0.23	0.21
75	0.12	0.10	0.12	0.09	0.11	0.10	0.11	0.10	0.11	0.10	0.12	0.10	0.10	0.12	0.11	0.13	0.11	0.14	0.12
80	0.08	0.06	0.07	0.05	0.07	0.05	0.07	0.05	0.07	0.05	0.07	0.06	0.05	0.07	0.05	0.07	0.06	0.08	0.06
85	0.05	0.03	0.05	0.04	0.04	0.04	0.05	0.04	0.05	0.04	0.04	0.03	0.02	0.03	0.02	0.03	0.02	0.04	0.03
90	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.03	0.04	0.03	0.04	0.02	0.02	0.01	0.02	0.02	0.02	0.02

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

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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:221.0V I:0.0491A P:9.980W PF:0.9041 Freq:49.90Hz Lamp Flux:746.544x1 lm		
NAME: FL300-SL300-2S-8W-840-55D	TYPE:Linear Light	SERIAL No.:
SPEC.:4000K	DIM.: φ31mm*H50mm	
MFR.: NEKO LIGHTING AG		

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345												
0	809	809	808	808	807												
5	805	802	797	794	790												
10	789	786	778	771	765												
15	753	751	740	731	724												
20	684	684	671	664	656												
25	574	576	565	563	558												
30	432	434	425	427	423												
35	274	277	270	274	268												
40	156	158	155	156	153												
45	80.3	82.7	79.2	82.0	80.0												
50	14.6	16.2	15.6	15.9	15.4												
55	4.99	5.08	5.10	5.34	5.27												
60	1.76	1.86	1.85	1.97	1.93												
65	0.40	0.39	0.40	0.38	0.39												
70	0.23	0.21	0.22	0.20	0.21												
75	0.13	0.11	0.13	0.11	0.13												
80	0.08	0.06	0.08	0.06	0.07												
85	0.04	0.03	0.04	0.03	0.04												
90	0.02	0.02	0.02	0.02	0.02												

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

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: