

LED Linear Light FL300-SL300-1S-4W-840-55D



Light Output Ratio:	100.0%	
Luminaire Power:	5.45 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.85	fine grid method.

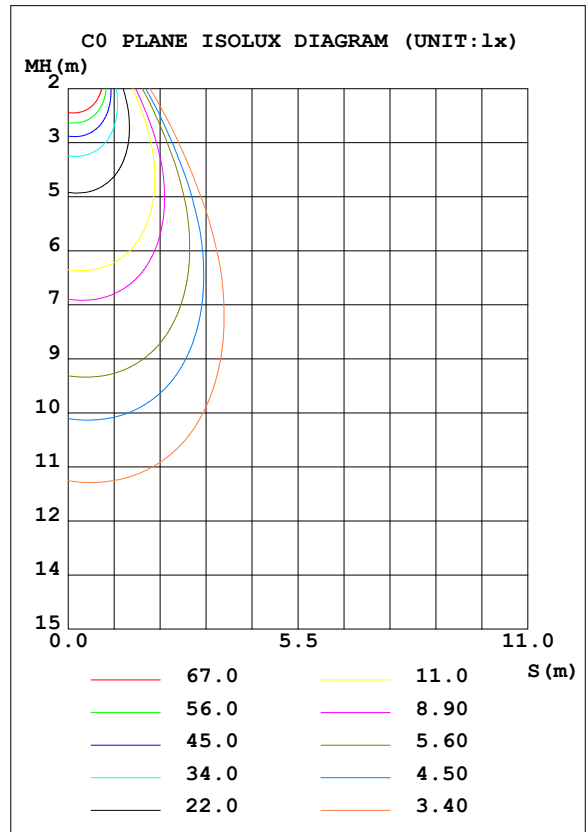
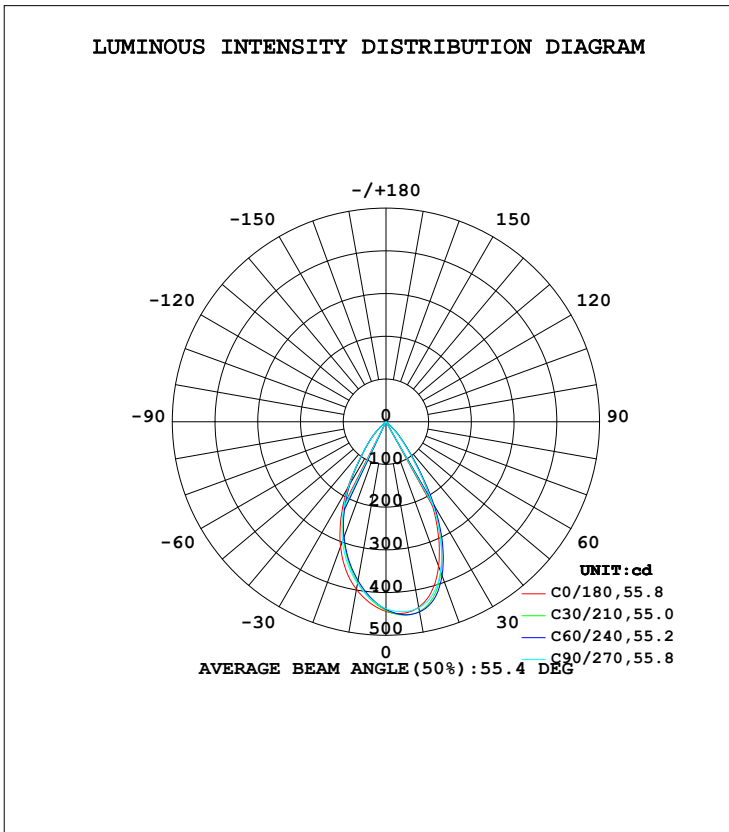
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Myles
Test Date: 2019-03-05

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:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:221.1V I:0.0311A P:5.450W PF:0.7900 Freq:49.90Hz Lamp Flux:369.388x1 lm		
NAME: FL300-SL300-1S-4W-840-55D	TYPE:Linear Light	SERIAL No.:
SPEC.:4000K	DIM.: φ30mm*H72mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 67.78 lm/W			
MODEL	OSRAM-4000K	I _{max} (cd)	456.1	S/MH (C0/180)	0.83
NOMINAL POWER (W)	6	LOR (%)	100.0	S/MH (C90/270)	0.81
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	369.39	η UP, DN (C0-180)	0.0, 52.8
NOMINAL FLUX (lm)	369.388	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 47.2
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	0.85



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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	440.9	452.9	442.0	415.1	398.7	376.4	384.3	406.0	0- 10	40.67	40.67	11,11
20	360.3	382.4	373.0	337.5	311.2	284.6	298.1	323.1	10- 20	106.2	146.9	39.8,39.8
30	207.9	225.9	214.0	192.8	179.9	167.8	175.2	192.7	20- 30	121.9	268.8	72.8,72.8
40	66.36	68.91	65.76	62.58	63.23	61.63	62.29	66.32	30- 40	74.57	343.4	93,93
50	6.013	6.008	4.871	4.439	4.542	4.691	5.666	6.533	40- 50	23.69	367.1	99.4,99.4
60	0.7435	0.7395	0.5879	0.6368	0.7014	0.6312	0.5970	0.7342	50- 60	2.032	369.1	99.9,99.9
70	0.0832	0.0611	0.0766	0.0634	0.0699	0.0897	0.0678	0.0853	60- 70	0.2043	369.3	100,100
80	0.0328	0.0153	0.0350	0.0153	0.0131	0.0306	0.0131	0.0306	70- 80	0.0471	369.4	100,100
90	0.0153	0.0153	0.0131	0.0153	0.0066	0.0066	0.0066	0.0066	80- 90	0.0166	369.4	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): 360.87 lm

%lum = 97.7%
%lamp = 97.7%

Conical surface Flux(120deg): 369.12 lm

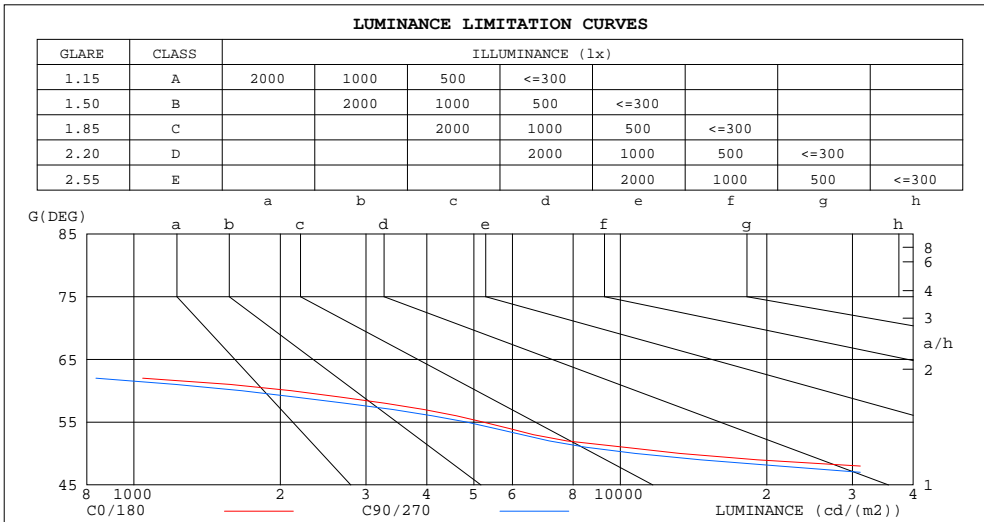
%lum = 99.9%
%lamp = 99.9%

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LUMINANCE LIMITATION CURVES

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LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	356	285
80	268	285
75	275	251
70	344	317
65	506	469
60	2105	1664
55	5222	4828
50	13241	10726
45	66441	59320

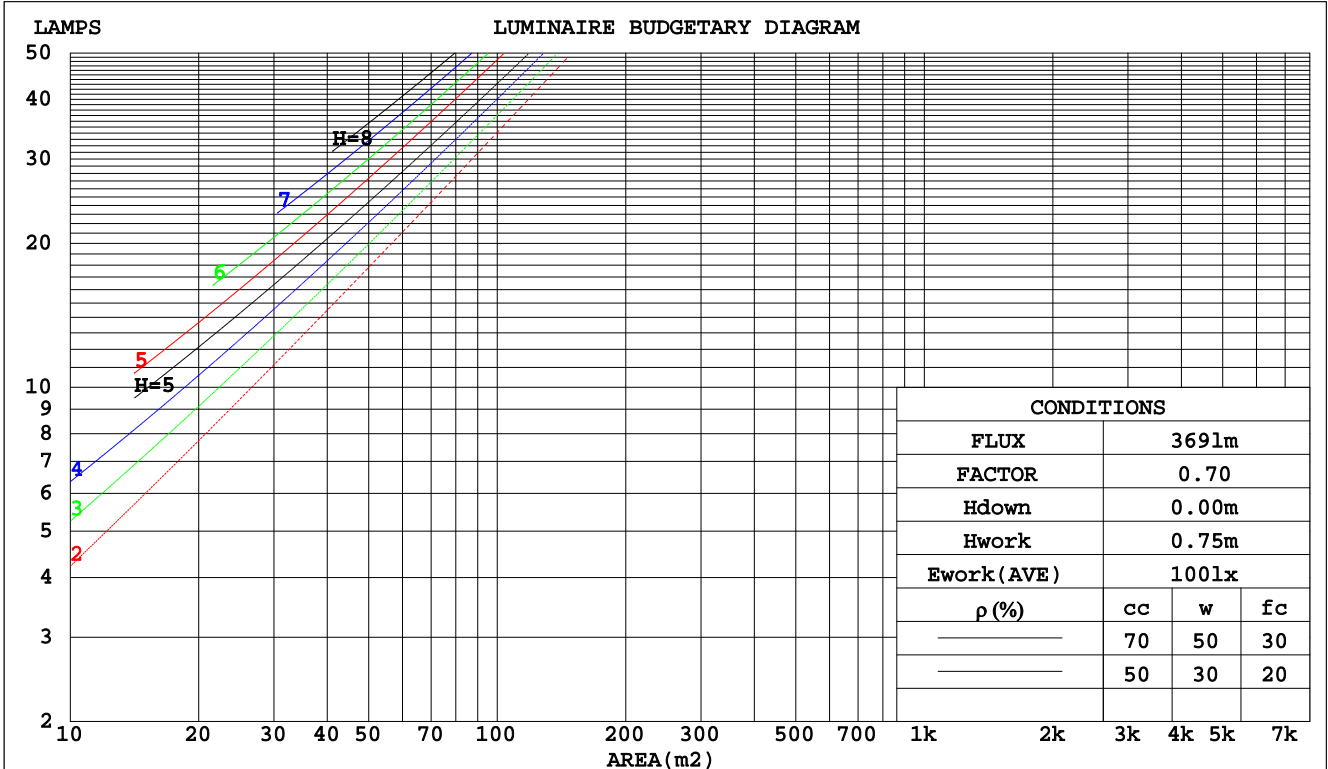
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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	1.11	1.08	1.06	1.09	1.07	1.05	1.05	1.03	1.01	1.01	.00	.98	.98	.97	.96	.94
2.0	1.03	.99	.96	1.02	.98	.95	.98	.95	.93	.95	.93	.91	.93	.91	.89	.87
3.0	.97	.92	.88	.95	.91	.87	.93	.89	.86	.90	.87	.84	.88	.85	.83	.82
4.0	.90	.85	.81	.89	.84	.80	.87	.83	.79	.85	.81	.78	.83	.80	.78	.76
5.0	.85	.79	.75	.84	.78	.74	.82	.77	.74	.80	.76	.73	.79	.75	.72	.71
6.0	.80	.74	.69	.79	.73	.69	.77	.72	.69	.76	.72	.68	.75	.71	.68	.66
7.0	.75	.69	.65	.74	.69	.65	.73	.68	.64	.72	.67	.64	.71	.67	.64	.62
8.0	.71	.65	.61	.70	.64	.61	.69	.64	.60	.68	.63	.60	.67	.63	.60	.58
9.0	.67	.61	.57	.66	.61	.57	.65	.60	.57	.64	.60	.56	.64	.59	.56	.55
10.0	.63	.57	.54	.63	.57	.54	.62	.57	.53	.61	.57	.53	.60	.56	.53	.52



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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	.175	.099	.031	.168	.096	.030	.155	.089	.028	.144	.083	.027	.133	.077	.025	
2.0	.168	.092	.028	.162	.089	.027	.151	.084	.026	.142	.079	.025	.133	.075	.024	
3.0	.160	.085	.025	.155	.083	.025	.146	.079	.024	.138	.075	.023	.130	.072	.022	
4.0	.153	.079	.023	.148	.078	.023	.141	.075	.022	.133	.072	.022	.127	.069	.021	
5.0	.146	.074	.022	.142	.073	.021	.135	.070	.021	.129	.068	.020	.123	.066	.020	
6.0	.139	.070	.020	.136	.069	.020	.130	.067	.019	.125	.065	.019	.119	.063	.019	
7.0	.133	.066	.019	.131	.065	.019	.125	.063	.018	.120	.062	.018	.116	.060	.018	
8.0	.128	.062	.018	.125	.062	.017	.121	.060	.017	.116	.059	.017	.112	.057	.017	
9.0	.123	.059	.017	.120	.059	.016	.116	.057	.016	.112	.056	.016	.108	.055	.016	
10.0	.118	.056	.016	.116	.056	.016	.112	.055	.015	.108	.054	.015	.105	.053	.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	.133	.113	.133	.114	.098	.091	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.143	.114	.090	.123	.098	.078	.084	.068	.055	.049	.040	.032	.016	.013	.011	
4.0	.133	.099	.073	.114	.085	.063	.079	.060	.044	.045	.035	.026	.015	.011	.009	
5.0	.124	.087	.060	.107	.075	.052	.074	.053	.037	.043	.031	.022	.014	.010	.007	
6.0	.117	.078	.050	.101	.067	.043	.069	.047	.031	.040	.028	.018	.013	.009	.006	
7.0	.111	.070	.042	.095	.061	.037	.066	.043	.026	.038	.025	.015	.012	.008	.005	
8.0	.105	.064	.036	.090	.056	.031	.063	.039	.022	.036	.023	.013	.012	.008	.004	
9.0	.100	.059	.031	.086	.051	.027	.060	.036	.019	.035	.021	.012	.011	.007	.004	
10.0	.096	.055	.027	.082	.047	.024	.057	.033	.017	.033	.020	.010	.011	.006	.003	

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 Test Distance:5.850m [K=1.0000]
 Remarks:

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	26.2	27.1	26.4	27.3	27.5	26.2	27.2	26.5	27.3	27.5
3H	26.0	26.9	26.3	27.1	27.3	26.1	26.9	26.3	27.1	27.3
4H	25.9	26.7	26.2	27.0	27.2	26.0	26.8	26.3	27.0	27.2
6H	25.8	26.6	26.1	26.8	27.1	25.9	26.7	26.2	26.9	27.1
8H	25.8	26.5	26.1	26.8	27.0	25.8	26.6	26.2	26.8	27.1
12H	25.7	26.4	26.1	26.7	27.0	25.8	26.5	26.1	26.8	27.0
4H 2H	25.9	26.7	26.2	27.0	27.2	26.0	26.8	26.3	27.0	27.2
3H	25.7	26.4	26.1	26.7	27.0	25.8	26.5	26.1	26.8	27.0
4H	25.7	26.3	26.0	26.6	26.9	25.7	26.3	26.1	26.6	26.9
6H	25.6	26.1	25.9	26.4	26.8	25.6	26.2	26.0	26.5	26.8
8H	25.5	26.0	25.9	26.4	26.7	25.6	26.1	26.0	26.4	26.8
12H	25.5	25.9	25.9	26.3	26.7	25.5	26.0	25.9	26.4	26.7
8H 4H	25.5	26.0	25.9	26.4	26.7	25.6	26.1	26.0	26.4	26.8
6H	25.4	25.8	25.8	26.2	26.6	25.5	25.9	25.9	26.3	26.7
8H	25.3	25.7	25.8	26.1	26.6	25.4	25.8	25.9	26.2	26.6
12H	25.3	25.6	25.8	26.1	26.5	25.3	25.7	25.8	26.1	26.6
12H 4H	25.5	25.9	25.9	26.3	26.7	25.5	26.0	25.9	26.4	26.7
6H	25.3	25.7	25.8	26.1	26.6	25.4	25.8	25.9	26.2	26.6
8H	25.3	25.6	25.8	26.1	26.5	25.3	25.7	25.8	26.1	26.6
Variations with the observer position at spacings:										
S = 1.0H	+ 3.0 / -18.8					+ 2.9 / -19.6				
1.5H	+ 5.2 / -15.0					+ 5.2 / -15.3				
2.0H	+ 8.0 / -21.9					+ 8.0 / -21.2				

CIE Pub.117, 369.4 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -3.5)

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UTILIZATION FACTORS TABLE

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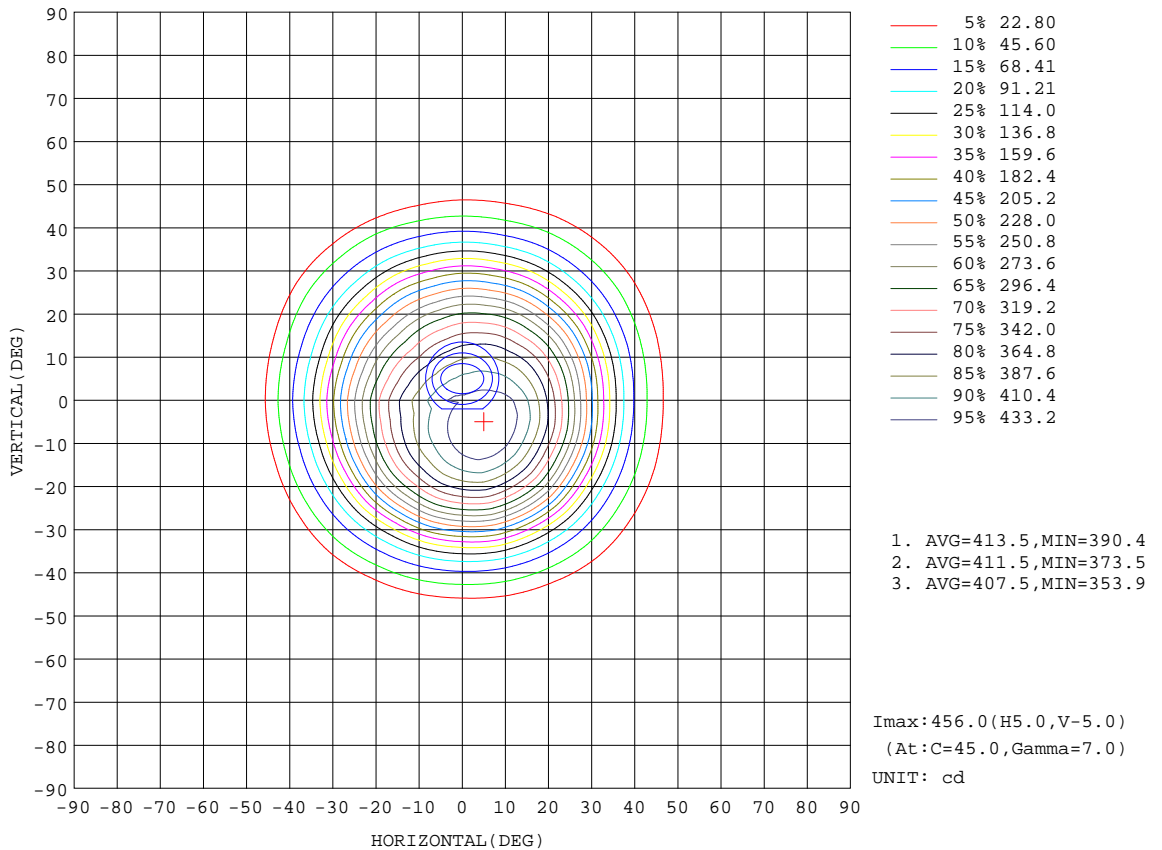
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	87	81	77	87	81	77	86	80	77	73
0.80	95	89	85	94	89	85	93	88	85	81
1.00	99	94	90	98	93	90	97	93	89	85
1.25	103	98	95	102	98	94	100	96	94	89
1.50	106	101	98	105	101	98	103	99	97	92
2.00	109	105	102	107	104	101	105	102	99	94
2.50	110	107	104	109	105	103	106	103	101	95
3.00	112	109	106	110	107	105	107	104	103	96
4.00	114	111	109	112	110	108	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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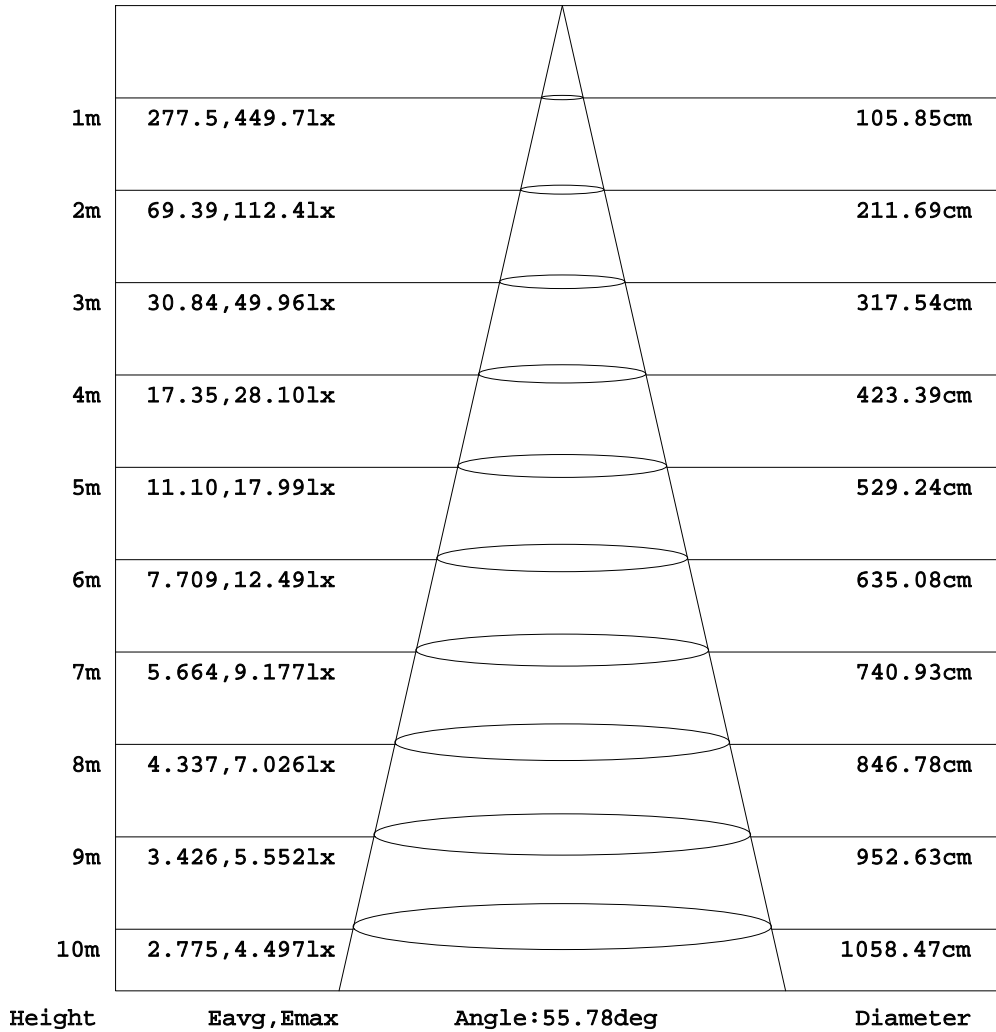
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AAI Figure

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Flux out:246.5 lm



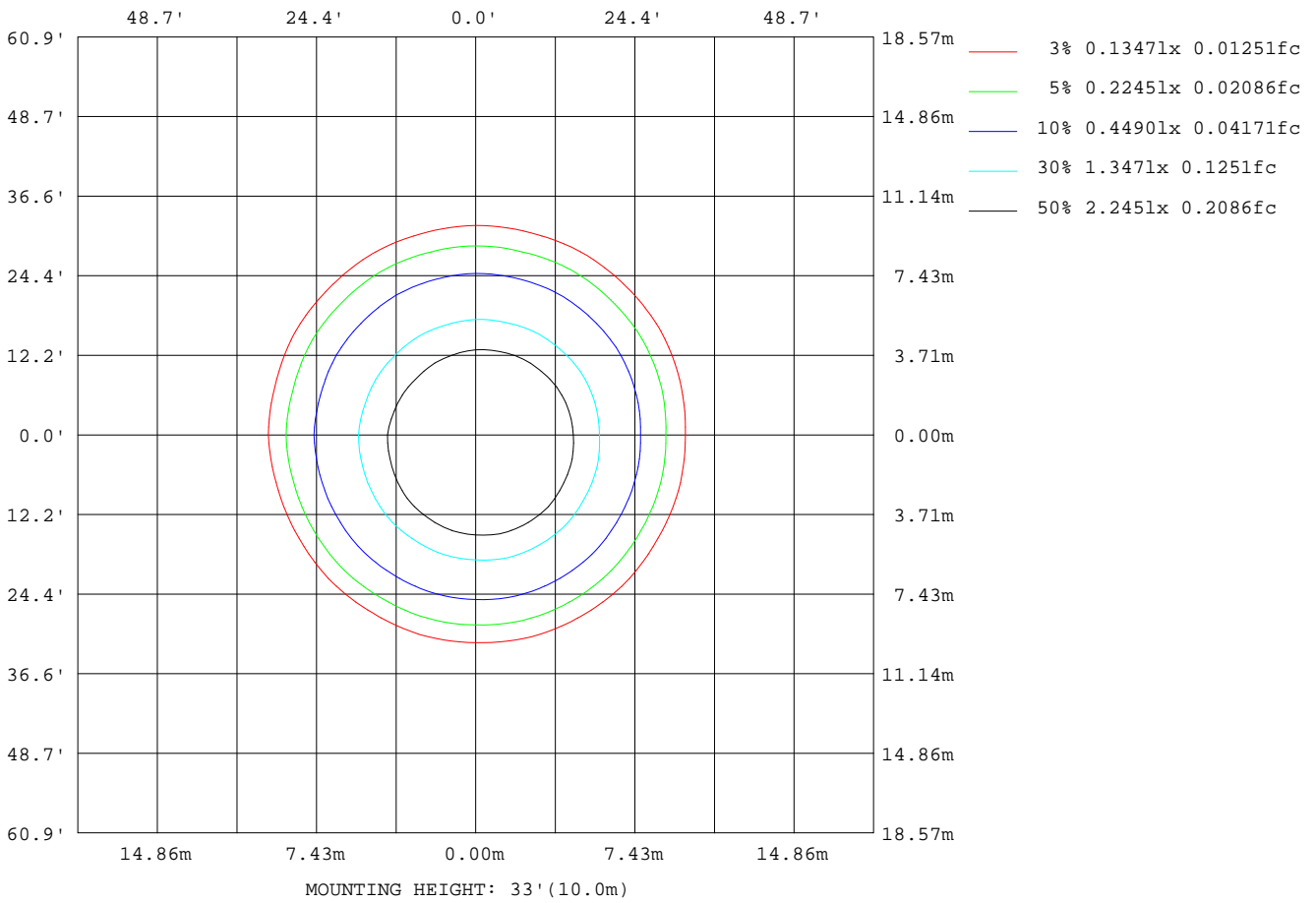
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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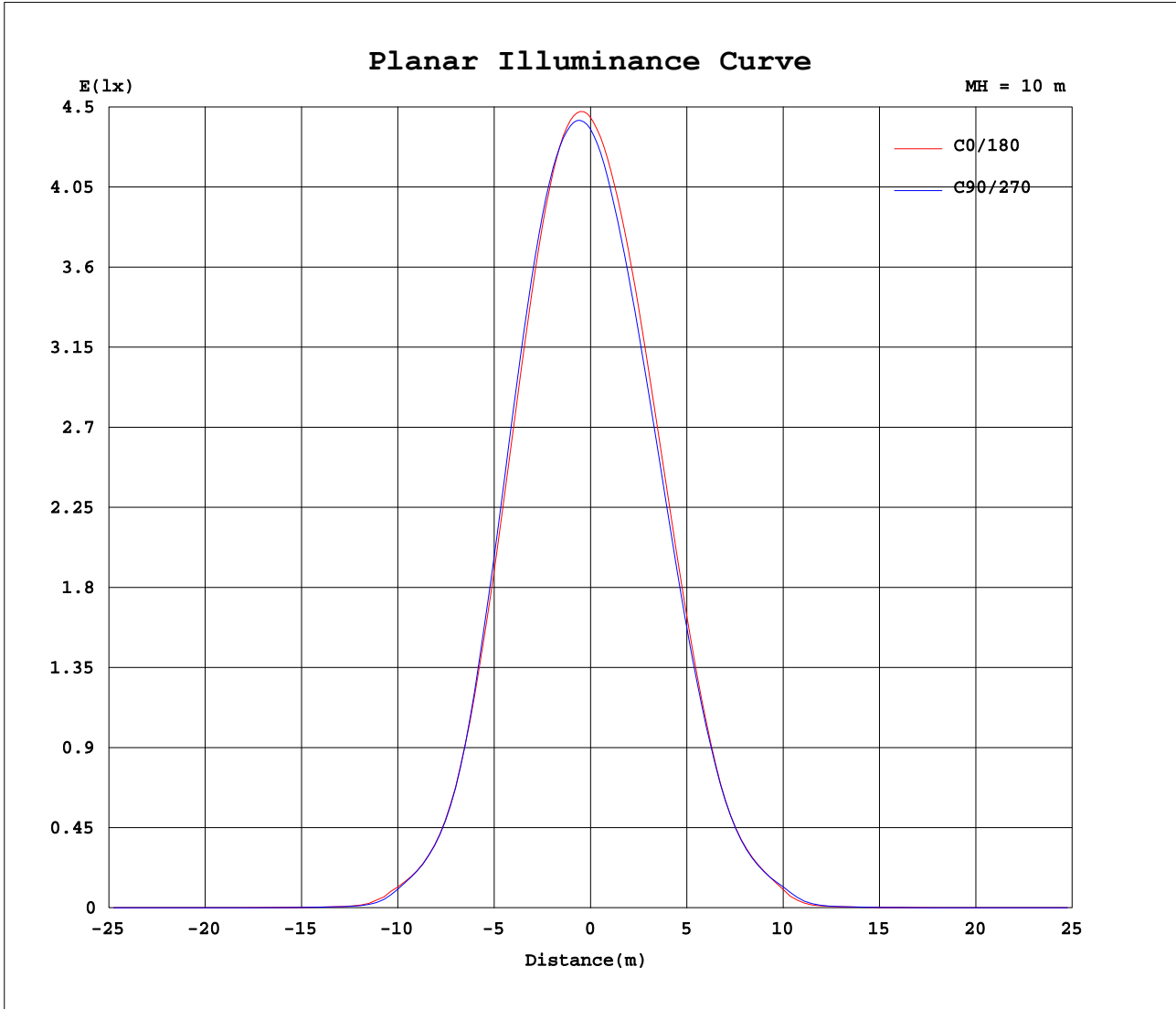
AvgL	cd/m2
L_0~180 (65) av	476
L_0~180 (75) av	227
L_0~180 (85) av	231
L_90~270 (65) av	461
L_90~270 (75) av	215
L_90~270 (85) av	196
L_45 (65) av	478
L_45 (75) av	230
L_45 (85) av	249

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

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:0.0311A P:5.450W PF:0.7900 Freq:49.90Hz Lamp Flux:369.388x1 lm		
NAME: FL300-SL300-1S-4W-840-55D	TYPE:Linear Light	SERIAL No.:
SPEC.:4000K	DIM.: φ30mm*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	444	442	442	440	439	438	438	436	436	435	435	434	444	442	442	440	439	438	438
5	450	453	454	454	453	450	446	441	436	431	425	420	426	420	417	413	413	413	416
10	441	447	451	453	452	449	442	434	424	415	405	397	399	388	382	376	378	379	384
15	412	422	426	431	431	429	420	409	395	385	373	363	361	347	340	334	336	339	346
20	360	371	376	382	384	383	373	363	348	338	325	314	311	298	291	285	288	290	298
25	290	300	304	313	313	312	302	294	281	273	260	252	250	238	234	229	232	233	239
30	208	216	219	226	224	224	214	207	198	193	184	179	180	172	171	168	170	170	175
35	123	129	128	133	131	131	123	120	113	112	109	108	110	105	106	105	107	107	109
40	66.4	67.2	67.9	68.9	68.5	67.8	65.8	64.3	62.8	62.6	61.8	61.4	63.2	61.6	62.2	61.6	62.2	61.8	62.3
45	33.2	34.0	33.0	33.9	32.9	32.2	29.6	29.1	25.6	26.2	24.2	24.4	29.1	27.6	29.5	29.0	31.8	31.6	33.3
50	6.01	6.45	6.03	6.01	5.54	5.39	4.87	4.87	4.42	4.44	4.13	4.00	4.54	4.45	4.88	4.69	4.95	4.92	5.67
55	2.12	2.21	2.21	2.20	2.10	2.06	1.96	1.99	1.95	2.01	1.94	1.92	2.04	2.06	2.16	2.08	2.09	2.04	2.10
60	0.74	0.75	0.71	0.74	0.68	0.64	0.59	0.62	0.63	0.64	0.59	0.61	0.70	0.65	0.67	0.63	0.63	0.57	0.60
65	0.15	0.13	0.14	0.13	0.15	0.12	0.14	0.12	0.14	0.13	0.15	0.13	0.13	0.15	0.14	0.15	0.14	0.16	0.14
70	0.08	0.07	0.08	0.06	0.08	0.06	0.08	0.06	0.08	0.06	0.08	0.07	0.07	0.09	0.07	0.09	0.07	0.09	0.07
75	0.05	0.03	0.05	0.03	0.05	0.03	0.05	0.03	0.05	0.03	0.05	0.03	0.03	0.05	0.03	0.06	0.03	0.05	0.03
80	0.03	0.02	0.03	0.02	0.03	0.01	0.03	0.01	0.03	0.02	0.03	0.02	0.01	0.03	0.01	0.03	0.01	0.03	0.01
85	0.02	0.01	0.02	0.02	0.02	0.01	0.02	0.01	0.02	0.02	0.02	0.02	0.01	0.02	0.01	0.02	0.01	0.02	0.01
90	0.02	0.01	0.02	0.02	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01

C Range: 0 - 360DEG γ Range: 0 - 90DEG
 C Interval: 15.0DEG γ Interval: 1.0DEG
 Test Speed: HIGH Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Temperature:25.3DEG Humidity:56%
 Operators:Myles Test Distance:5.850m [K=1.0000]
 Test Date:2019-03-05 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:221.1V I:0.0311A P:5.450W PF:0.7900 Freq:49.90Hz Lamp Flux:369.388x1 lm		
NAME: FL300-SL300-1S-4W-840-55D	TYPE:Linear Light	SERIAL No.:
SPEC.:4000K	DIM.: φ30mm*H72mm	
MFR.: NEKO LIGHTING AG		

Table--2

UNIT: cd

C (DEG) \ γ (DEG)	285	300	315	330	345													
0	436	436	435	435	434													
5	418	423	427	433	437													
10	389	398	406	417	426													
15	352	362	371	385	398													
20	304	314	323	338	349													
25	244	255	263	276	284													
30	178	187	193	202	207													
35	111	116	119	125	126													
40	62.7	64.9	66.3	68.0	68.6													
45	33.3	34.9	35.2	36.2	35.2													
50	5.82	6.91	6.53	7.01	6.90													
55	2.11	2.22	2.26	2.34	2.22													
60	0.62	0.73	0.73	0.78	0.79													
65	0.15	0.14	0.16	0.14	0.16													
70	0.09	0.07	0.09	0.07	0.08													
75	0.05	0.03	0.05	0.03	0.05													
80	0.03	0.01	0.03	0.01	0.03													
85	0.02	0.01	0.02	0.01	0.02													
90	0.01	0.01	0.01	0.01	0.01													

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: