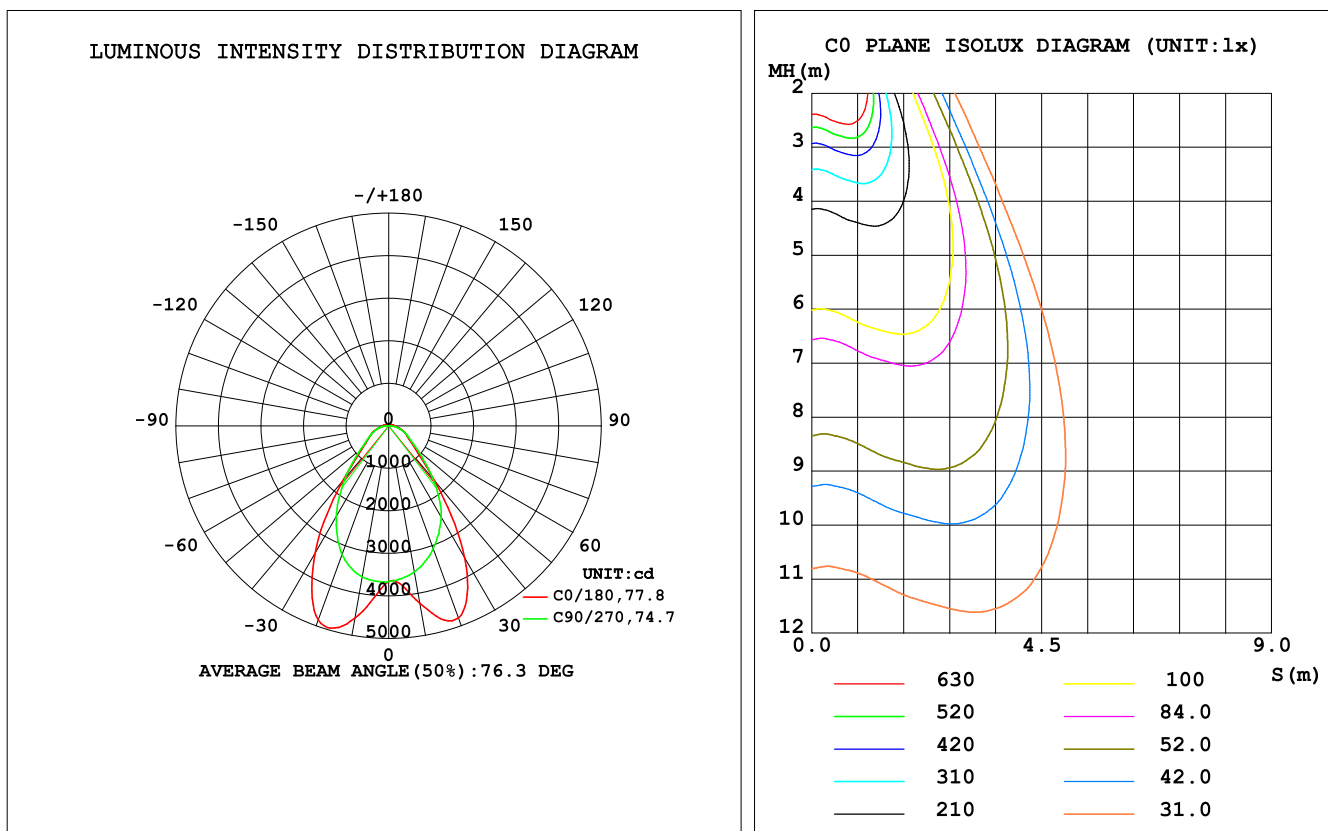


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:222.49V I:0.2297A P:49.599W PF:0.9703 Freq:49.97Hz Lamp Flux:7798.05x1 lm		
NAME: LED Linear Lighting System	TYPE:	WEIGHT:2kg
SPEC.:	DIM.: 1500*60*10mm	SERIAL No.:
MFR.: LUCE STYL	SUR.:1500*60mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 157.22 lm/W			
MODEL	CTLS-1550-40DS-04WH	I _{max} (cd)	4975	S/MH (C0/180)	1.12
NOMINAL POWER (W)	50	LOR (%)	100.0	S/MH (C90/270)	1.06
RATED VOLTAGE (V)	230.0	TOTAL FLUX (lm)	7798.0	UP, DN (C0-180)	1.8, 48.2
NOMINAL FLUX (lm)	7798.05	CIE CLASS	DIRECT	UP, DN (C180-360)	1.8, 48.2
LAMPS INSIDE	1	up (%)	3.6	CIBSE SHR NOM	1.00
TEST VOLTAGE (V)	230.0	down (%)	96.4	CIBSE SHR MAX	1.05



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zcx
Test Date:2024-11-03

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.330m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

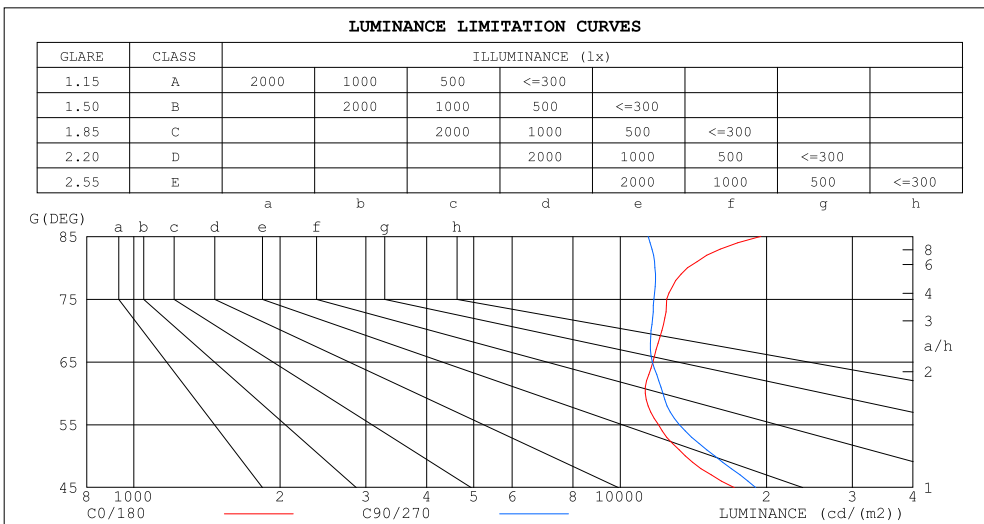
	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum, lamp
10	4234	3825	3486	4148	4592	4301	3607	3899	0- 10	369.2	369.2	4.73,4.73
20	4802	4203	3067	4539	4850	4676	3218	4257	10- 20	1186	1555	19.9,19.9
30	3574	3637	2471	3932	3467	3931	2470	3694	20- 30	1789	3344	42.9,42.9
40	1668	2047	1617	2137	1667	2165	1580	2038	30- 40	1644	4989	64,64
50	796.3	929.9	898.8	949.6	800.6	989.0	864.8	908.3	40- 50	1037	6026	77.3,77.3
60	512.8	523.9	546.9	521.9	522.5	546.2	538.1	504.2	50- 60	631.6	6657	85.4,85.4
70	379.1	333.0	354.0	325.2	378.7	340.9	358.2	318.4	60- 70	434.5	7092	90.9,90.9
80	217.3	180.7	183.0	177.6	213.7	188.2	190.6	174.0	70- 80	285.3	7377	94.6,94.6
90	101.8	79.14	8.470	80.29	106.0	82.70	11.15	77.00	80- 90	137.3	7514	96.4,96.4
100	116.7	70.88	9.979	67.48	128.4	65.80	9.888	67.22	90-100	74.26	7589	97.3,97.3
110	86.39	56.46	12.81	52.60	84.46	52.63	12.29	52.68	100-110	64.94	7654	98.1,98.1
120	61.11	41.32	14.00	42.92	58.62	44.55	14.30	38.45	110-120	45.47	7699	98.7,98.7
130	53.98	31.80	16.12	37.14	49.72	38.87	16.55	30.49	120-130	33.93	7733	99.2,99.2
140	46.82	29.55	17.99	34.41	42.21	35.62	18.50	28.65	130-140	25.85	7759	99.5,99.5
150	39.63	25.39	19.91	28.35	35.14	28.67	20.56	24.61	140-150	18.15	7777	99.7,99.7
160	30.94	23.80	21.75	23.13	28.24	23.44	22.17	23.05	150-160	11.89	7789	99.9,99.9
170	25.90	24.79	24.20	22.86	25.54	23.79	24.45	23.94	160-170	6.812	7796	100,100
180	27.78	26.27	25.56	25.32	27.88	26.32	25.63	25.36	170-180	2.398	7798	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zcx
Test Date:2024-11-03

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.330m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:222.49V I:0.2297A P:49.599W PF:0.9703 Freq:49.97Hz Lamp Flux:7798.05x1 lm		
NAME: LED Linear Lighting System	TYPE:	WEIGHT:2kg
SPEC.:	DIM.: 1500*60*10mm	SERIAL No.:
MFR.: LUCE STYL	SUR.:1500*60mm	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	19448	11422
80	13747	11791
75	12466	11730
70	12178	11582
65	11678	11652
60	11268	12239
55	11984	13229
50	13609	15646
45	17170	18995

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zcx
Test Date:2024-11-03

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.330m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:222.49V I:0.2297A P:49.599W PF:0.9703 Freq:49.97Hz Lamp Flux:7798.05x1 lm		
NAME: LED Linear Lighting System	TYPE:	WEIGHT:2kg
SPEC.:	DIM.: 1500*60*10mm	SERIAL No.:
MFR.: LUCE STYL	SUR.:1500*60mm	Shielding Angle:

cc	80%			70%			50%			30%			10%			0
w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.258	.147	.046	.250	.143	.045	.235	.135	.043	.221	.127	.041	.208	.121	.039	
2.0	.241	.132	.041	.234	.129	.040	.221	.123	.038	.209	.117	.037	.197	.112	.035	
3.0	.224	.119	.036	.218	.117	.035	.207	.112	.034	.196	.107	.033	.186	.103	.032	
4.0	.209	.109	.032	.204	.107	.032	.194	.103	.031	.184	.099	.030	.175	.095	.029	
5.0	.196	.100	.029	.191	.098	.029	.182	.095	.028	.173	.091	.027	.165	.088	.027	
6.0	.184	.092	.026	.179	.091	.026	.171	.088	.025	.163	.085	.025	.156	.082	.024	
7.0	.173	.085	.024	.169	.084	.024	.161	.082	.023	.154	.079	.023	.148	.077	.023	
8.0	.163	.080	.022	.159	.078	.022	.153	.076	.022	.146	.074	.021	.141	.072	.021	
9.0	.154	.074	.021	.151	.074	.021	.145	.072	.020	.139	.070	.020	.134	.068	.020	
10.0	.146	.070	.019	.143	.069	.019	.138	.067	.019	.132	.066	.019	.127	.064	.018	

cc	80%			70%			50%			30%			10%			0
w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Ceiling Cavity Exitance Coefficients(CCEC)												
0.0	.218	.218	.218	.186	.186	.186	.127	.127	.127	.073	.073	.073	.023	.023	.023	
1.0	.205	.185	.166	.175	.158	.143	.120	.109	.099	.069	.063	.058	.022	.020	.019	
2.0	.194	.160	.132	.166	.138	.114	.114	.095	.080	.066	.056	.047	.021	.018	.015	
3.0	.184	.142	.109	.158	.123	.095	.108	.085	.066	.063	.050	.039	.020	.016	.013	
4.0	.175	.129	.093	.151	.111	.081	.104	.077	.057	.060	.045	.034	.019	.015	.011	
5.0	.168	.118	.081	.144	.102	.070	.099	.071	.050	.057	.042	.029	.019	.014	.010	
6.0	.161	.109	.072	.138	.094	.063	.095	.066	.044	.055	.039	.026	.018	.013	.009	
7.0	.154	.102	.065	.133	.088	.057	.092	.062	.040	.053	.037	.024	.017	.012	.008	
8.0	.148	.096	.060	.128	.083	.053	.088	.059	.037	.051	.035	.022	.017	.011	.007	
9.0	.143	.091	.056	.123	.079	.049	.085	.056	.035	.050	.033	.021	.016	.011	.007	
10.0	.138	.087	.053	.119	.075	.046	.082	.053	.033	.048	.031	.020	.016	.010	.007	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zcx
Test Date:2024-11-03

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.330m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:222.49V I:0.2297A P:49.599W PF:0.9703 Freq:49.97Hz Lamp Flux:7798.05x1 lm										
NAME: LED Linear Lighting System					TYPE:			WEIGHT:2kg		
SPEC.:					DIM.: 1500*60*10mm			SERIAL No.:		
MFR.: LUCE STYL					SUR.:1500*60mm			Shielding Angle:		
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	12.9	14.1	13.2	14.4	14.6	13.7	14.9	14.0	15.2	15.4
3H	14.0	15.2	14.4	15.4	15.7	14.6	15.8	15.0	16.1	16.4
4H	14.7	15.7	15.0	16.0	16.4	15.2	16.2	15.5	16.5	16.8
6H	15.3	16.3	15.7	16.7	17.0	15.6	16.6	16.0	17.0	17.3
8H	15.6	16.6	16.0	17.0	17.3	15.8	16.8	16.2	17.1	17.5
12H	16.0	17.0	16.4	17.3	17.7	15.9	16.9	16.3	17.2	17.6
4H 2H	13.2	14.3	13.6	14.6	14.9	13.9	15.0	14.2	15.3	15.6
3H	14.6	15.5	15.0	15.9	16.2	15.1	16.1	15.5	16.4	16.8
4H	15.4	16.2	15.8	16.6	17.0	15.8	16.7	16.2	17.0	17.4
6H	16.2	17.0	16.7	17.4	17.8	16.4	17.2	16.9	17.6	18.0
8H	16.7	17.4	17.1	17.8	18.2	16.7	17.4	17.2	17.8	18.3
12H	17.1	17.8	17.6	18.2	18.7	16.9	17.6	17.4	18.0	18.5
8H 4H	15.6	16.3	16.1	16.8	17.2	16.0	16.7	16.5	17.1	17.6
6H	16.7	17.2	17.2	17.7	18.2	16.8	17.4	17.3	17.9	18.4
8H	17.2	17.8	17.8	18.2	18.8	17.2	17.7	17.7	18.2	18.7
12H	17.9	18.3	18.4	18.8	19.4	17.5	18.0	18.1	18.5	19.0
12H 4H	15.7	16.3	16.1	16.8	17.2	16.0	16.7	16.5	17.1	17.6
6H	16.8	17.3	17.3	17.8	18.3	16.9	17.4	17.4	17.9	18.4
8H	17.4	17.8	17.9	18.3	18.9	17.4	17.8	17.9	18.3	18.9
Variations with the observer position at spacings:										
S = 1.0H	+ 0.4 / - 0.4					+ 0.5 / - 0.5				
1.5H	+ 0.5 / - 0.3					+ 0.4 / - 0.5				
2.0H	+ 0.4 / - 0.2					+ 0.8 / - 0.5				

CIE Pub.117, 7798 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 7.1$)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zcx
Test Date:2024-11-03

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.330m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:222.49V I:0.2297A P:49.599W PF:0.9703 Freq:49.97Hz Lamp Flux:7798.05x1 lm		
NAME: LED Linear Lighting System	TYPE:	WEIGHT:2kg
SPEC.:	DIM.: 1500*60*10mm	SERIAL No.:
MFR.: LUCE STYL	SUR.:1500*60mm	Shielding Angle:

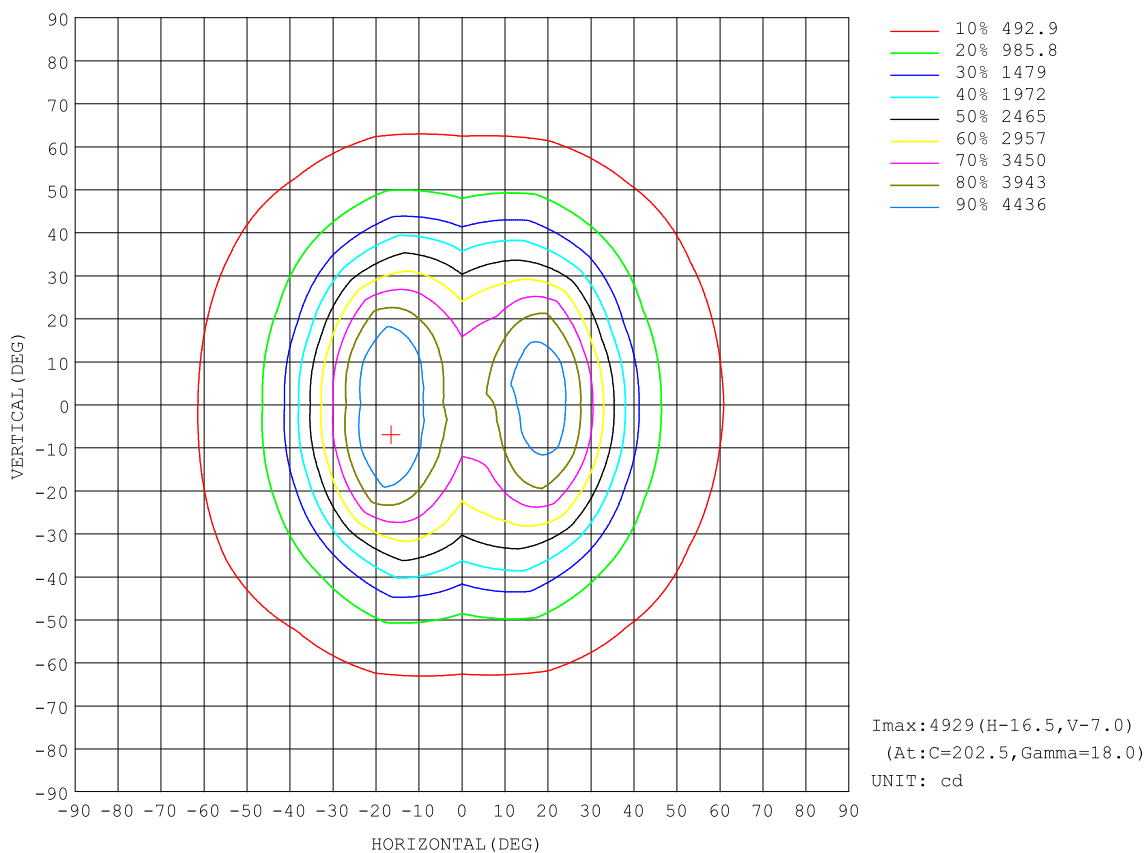
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	69	60	54	68	60	54	67	59	54	49
0.80	78	69	63	77	69	63	75	68	62	57
1.00	85	76	70	84	76	70	82	76	69	63
1.25	91	82	77	89	82	76	87	80	75	69
1.50	95	87	81	93	86	81	90	84	79	73
2.00	100	93	88	98	92	87	94	89	85	78
2.50	103	96	91	100	95	90	96	92	88	80
3.00	105	100	95	103	98	94	99	95	91	83
4.00	108	104	100	106	102	98	101	98	95	86
5.00	110	106	103	107	104	101	103	100	97	88
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zcx
Test Date:2024-11-03

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.330m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:222.49V I:0.2297A P:49.599W PF:0.9703 Freq:49.97Hz Lamp Flux:7798.05x1 lm		
NAME: LED Linear Lighting System	TYPE:	WEIGHT:2kg
SPEC.:	DIM.: 1500*60*10mm	SERIAL No.:
MFR.: LUCE STYL	SUR.:1500*60mm	Shielding Angle:

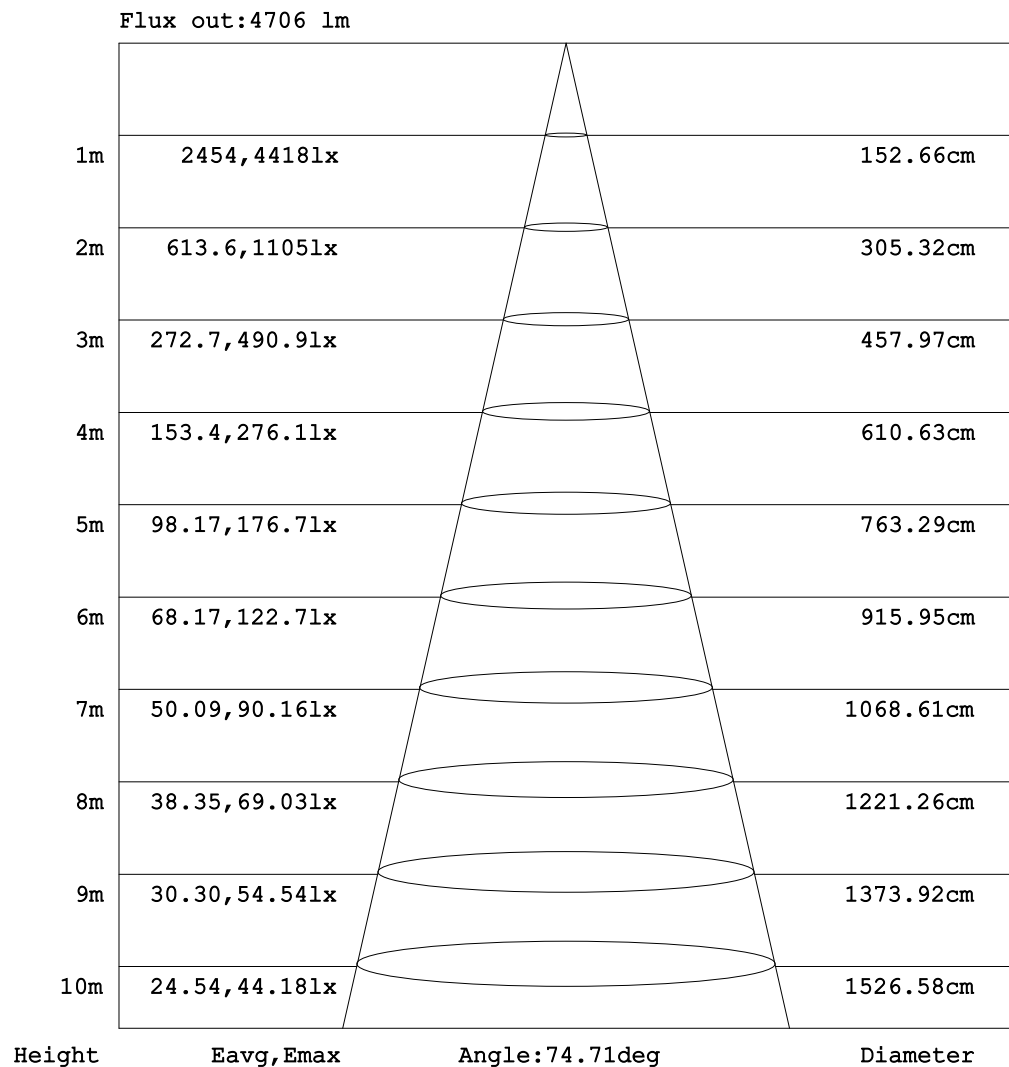


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zcx
Test Date:2024-11-03

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.330m [K=1.0000]
Remarks:

AAI Figure

Test:U:222.49V I:0.2297A P:49.599W PF:0.9703 Freq:49.97Hz Lamp Flux:7798.05x1 lm		
NAME: LED Linear Lighting System	TYPE:	WEIGHT:2kg
SPEC.:	DIM.: 1500*60*10mm	SERIAL No.:
MFR.: LUCE STYL	SUR.:1500*60mm	Shielding Angle:

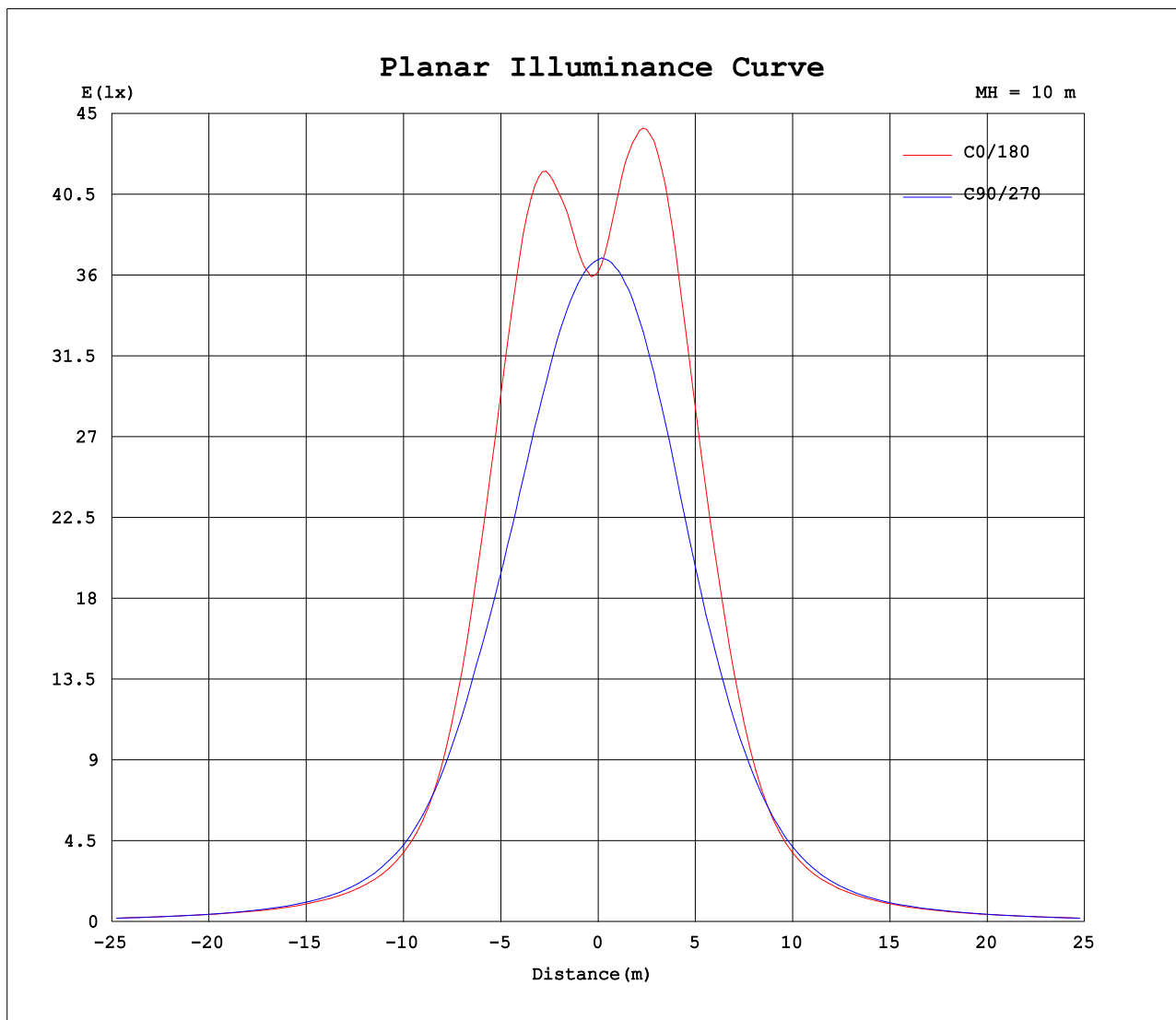


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zcx
Test Date:2024-11-03

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.330m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: zcx
 Test Date: 2024-11-03

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.366
 Humidity: 65.0%
 Test Distance: 8.330m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:222.49V I:0.2297A P:49.599W PF:0.9703 Freq:49.97Hz Lamp Flux:7798.05x1 lm		
NAME: LED Linear Lighting System	TYPE:	WEIGHT:2kg
SPEC.:	DIM.: 1500*60*10mm	SERIAL No.:
MFR.: LUCE STYL	SUR.:1500*60mm	Shielding Angle:

Table--1

UNIT: cd

C (DEG) (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	3661	3661	3661	3661	3661	3661	3661	3661	3661	3661	3661	3661	3661	3661	3661	3661			
5	3772	3733	3643	3604	3601	3720	3857	3965	4064	4055	3917	3800	3662	3645	3714	3806			
10	4234	4123	3825	3567	3486	3803	4148	4426	4592	4547	4301	3924	3607	3656	3899	4215			
15	4691	4517	4055	3509	3306	3839	4393	4776	4918	4905	4565	3987	3455	3628	4107	4589			
20	4802	4730	4203	3425	3067	3761	4539	4824	4850	4929	4676	3918	3218	3498	4257	4723			
25	4371	4435	4105	3224	2793	3582	4424	4440	4286	4504	4491	3695	2863	3274	4167	4363			
30	3574	3686	3637	2940	2471	3276	3932	3656	3467	3688	3931	3321	2470	2957	3694	3553			
35	2565	2696	2874	2557	2070	2815	3054	2698	2543	2699	3055	2785	2031	2510	2888	2539			
40	1668	1765	2047	2084	1617	2260	2137	1819	1667	1800	2165	2190	1580	1990	2038	1656			
45	1105	1147	1374	1567	1200	1678	1406	1205	1099	1194	1460	1603	1172	1465	1343	1091			
50	796	803	930	1122	899	1189	950	842	801	838	989	1138	865	1049	908	769			
55	626	613	682	813	678	845	691	651	627	647	720	828	662	763	664	596			
60	513	492	524	606	547	617	522	528	522	522	546	619	538	575	504	483			
65	449	403	417	470	440	468	411	443	443	435	431	479	438	447	400	399			
70	379	336	333	363	354	356	325	364	379	354	341	372	358	349	318	333			
75	294	264	252	278	271	268	247	285	288	277	261	283	278	268	242	260			
80	217	199	181	191	183	183	178	207	214	203	188	196	191	187	174	195			
85	154	141	122	106	89.0	104	121	148	148	147	127	112	98.7	108	119	136			
90	102	93.4	79.1	44.6	8.47	46.0	80.3	98.2	106	96.8	82.7	47.2	11.2	45.4	77.0	86.7			
95	106	89.5	86.2	41.6	9.10	43.1	83.5	94.8	119	97.2	87.5	40.9	8.92	42.3	79.5	87.3			
100	117	108	70.9	32.2	9.98	32.3	67.5	116	128	113	65.8	31.8	9.89	32.3	67.2	99.2			
105	108	91.8	69.7	30.9	11.5	32.2	65.8	97.2	105	93.7	69.6	31.3	11.1	30.0	66.7	89.2			
110	86.4	76.8	56.5	28.6	12.8	28.7	52.6	78.0	84.5	74.8	52.6	28.8	12.3	28.2	52.7	75.3			
115	73.5	66.3	48.7	28.2	13.3	28.9	47.0	66.1	69.6	64.8	48.7	28.8	13.2	26.9	46.0	64.1			
120	61.1	57.2	41.3	26.6	14.0	27.4	42.9	56.3	58.6	56.0	44.5	28.3	14.3	25.6	38.4	55.9			
125	57.0	53.8	34.5	25.3	15.2	26.5	39.3	51.4	53.2	51.2	41.1	27.3	15.4	24.6	33.9	52.6			
130	54.0	50.2	31.8	23.8	16.1	25.4	37.1	47.3	49.7	47.2	38.9	26.0	16.6	23.6	30.5	48.4			
135	51.0	44.3	30.5	22.5	17.0	24.2	36.7	43.2	46.4	43.2	37.3	24.6	17.6	22.2	30.1	42.7			
140	46.8	37.3	29.5	21.2	18.0	22.5	34.4	39.8	42.2	40.0	35.6	22.9	18.5	21.1	28.6	34.9			
145	43.4	33.3	27.6	20.6	18.9	21.2	32.1	36.1	40.0	35.7	32.8	21.7	19.5	20.7	26.8	30.6			
150	39.6	31.5	25.4	19.7	19.9	20.6	28.4	34.5	35.1	34.1	28.7	21.1	20.6	19.7	24.6	29.1			
155	35.8	29.2	24.1	20.9	20.9	20.8	25.1	30.9	32.2	30.3	25.3	21.2	21.4	20.8	23.3	27.3			
160	30.9	26.8	23.8	22.1	21.8	21.2	23.1	26.8	28.2	26.4	23.4	21.7	22.2	21.9	23.1	25.5			
165	27.1	25.3	24.1	23.5	23.1	22.3	22.6	24.1	25.6	24.2	23.2	23.1	23.4	23.2	23.3	24.3			
170	25.9	25.4	24.8	24.8	24.2	23.7	22.9	23.6	25.5	24.1	23.8	24.5	24.5	24.4	23.9	24.5			
175	26.9	26.5	25.9	25.7	25.1	24.9	24.4	24.8	26.9	25.7	25.5	25.6	25.2	25.2	25.0	25.6			
180	27.8	27.0	26.3	26.2	25.6	25.6	25.3	26.0	27.9	26.9	26.3	26.1	25.6	25.5	25.4	26.0			

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zcx
Test Date:2024-11-03

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.330m [K=1.0000]
Remarks: