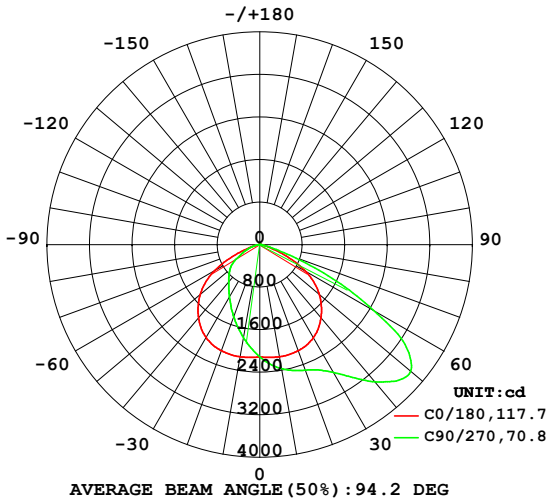
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.1V I:0.2338A P:52.54W PF:0.9771 Lamp Flux:6903.29x1 lm		
NAME: FL15-050	TYPE:50W	WEIGHT:
SPEC.:5000K Ra70 F01602	DIM.: 0.302*0.24*0.063	SERIAL No.:
MFR.:	SUR.:0.181*0.147	Shielding Angle:

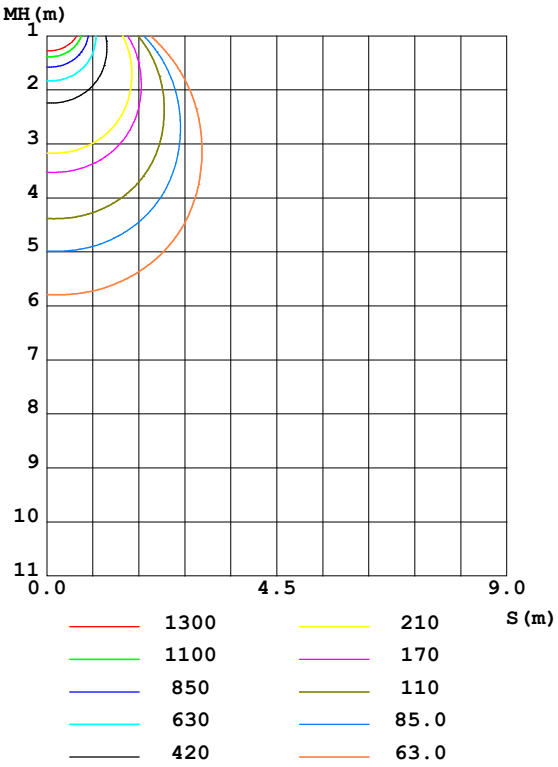
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 131.38 lm/W	
MODEL	3030	Imax(cd)	3718	S/MH(C0/180)	1.41
NOMINAL POWER(W)	50	LOR(%)	100.0	S/MH(C90/270)	0.85
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	6903.3	η UP,DN(C0-180)	0.0,66.2
NOMINAL FLUX(lm)	6903.29	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,33.8
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	230	η down(%)	100.0	CIBSE SHR MAX	1.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):94.2 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-09-25

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

Checker: LI

Assessor:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
5	2129	2226	2255	2226	2129	2009	1948	2009	0- 5	50.59	50.59	0.73,0.73
10	2142	2324	2369	2324	2142	1898	1776	1898	5- 10	151.2	201.8	2.92,2.92
15	2140	2403	2449	2403	2140	1775	1605	1775	10- 15	249.1	450.9	6.53,6.53
20	2123	2465	2513	2465	2123	1653	1442	1653	15- 20	341.4	792.3	11.5,11.5
25	2086	2509	2601	2509	2086	1524	1286	1524	20- 25	426.8	1219	17.7,17.7
30	2021	2539	2778	2539	2021	1397	1143	1397	25- 30	505.6	1725	25,25
35	1923	2580	3048	2580	1923	1266	1020	1266	30- 35	579.4	2304	33.4,33.4
40	1793	2617	3365	2617	1793	1142	915.1	1142	35- 40	647.9	2952	42.8,42.8
45	1641	2585	3627	2585	1641	1023	822.2	1023	40- 45	704.1	3656	53,53
50	1464	2446	3704	2446	1464	916.9	735.9	916.9	45- 50	737.0	4393	63.6,63.6
55	1254	2192	3368	2192	1254	813.9	630.7	813.9	50- 55	733.4	5127	74.3,74.3
60	985.4	1839	2460	1839	985.4	705.0	457.8	705.0	55- 60	668.2	5795	83.9,83.9
65	646.4	1286	1511	1286	646.4	554.6	339.2	554.6	60- 65	521.6	6316	91.5,91.5
70	327.2	683.0	663.2	683.0	327.2	352.8	232.2	352.8	65- 70	334.9	6651	96.4,96.4
75	136.5	260.6	205.6	260.6	136.5	171.0	124.4	171.0	70- 75	164.9	6816	98.7,98.7
80	46.71	68.40	59.76	68.40	46.71	61.56	59.59	61.56	75- 80	62.14	6878	99.6,99.6
85	14.50	17.43	18.01	17.43	14.50	19.92	22.27	19.92	80- 85	18.56	6897	99.9,99.9
90	6.733	6.602	6.216	6.602	6.733	9.164	10.19	9.164	85- 90	6.304	6903	100,100
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 3656.2 lm

%lum = 53.0%
%lamp = 53.0%

Conical surface Flux(120deg): 5794.9 lm

%lum = 83.9%
%lamp = 83.9%

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Operators:
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Checker: LI

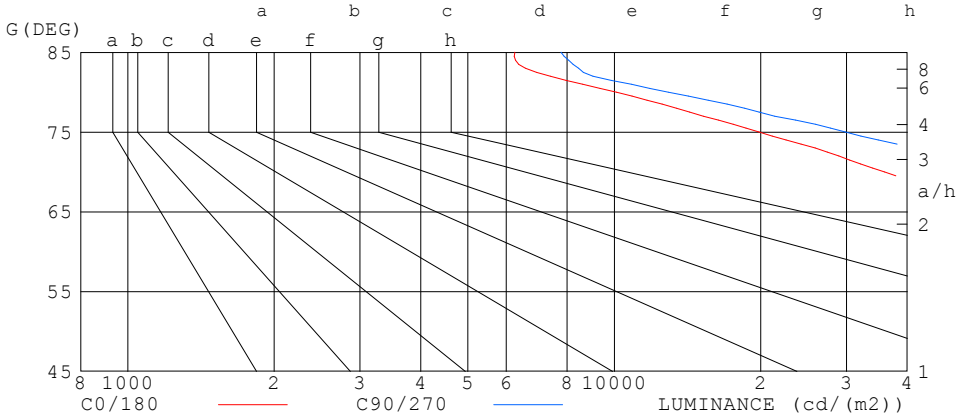
γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

Assessor:

LUMINANCE LIMITATION CURVES

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	6251	7765
80	10110	12934
75	19814	29857
70	35951	72868
65	57475	134360
60	74060	184890
55	82134	220652
50	85615	216545
45	87195	192750

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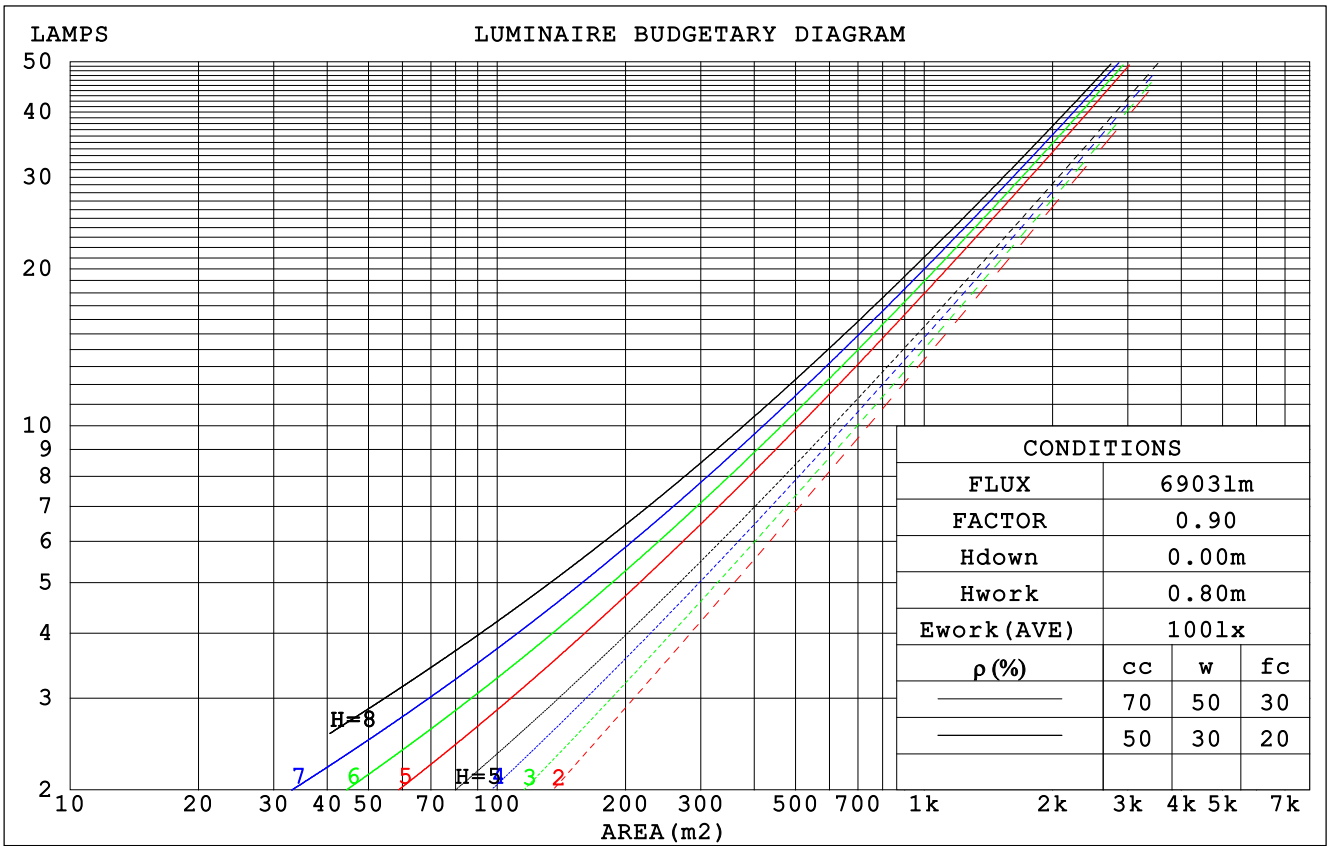
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

Assessor:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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	1.05	1.01	.98	1.03	.99	.96	.99	.96	.93	.95	.93	.90	.91	.89	.88	.86
2.0	.92	.86	.80	.90	.84	.79	.87	.82	.77	.83	.79	.76	.80	.77	.74	.72
3.0	.81	.73	.66	.79	.72	.66	.76	.70	.65	.73	.68	.63	.71	.66	.62	.60
4.0	.71	.62	.56	.70	.62	.55	.67	.60	.55	.65	.59	.54	.63	.58	.53	.51
5.0	.63	.54	.48	.62	.54	.47	.60	.52	.47	.58	.51	.46	.56	.50	.46	.44
6.0	.57	.48	.41	.56	.47	.41	.54	.46	.41	.52	.45	.40	.51	.45	.40	.38
7.0	.51	.42	.36	.50	.42	.36	.49	.41	.36	.47	.40	.35	.46	.40	.35	.33
8.0	.46	.38	.32	.46	.37	.32	.44	.37	.31	.43	.36	.31	.42	.36	.31	.29
9.0	.42	.34	.28	.42	.34	.28	.41	.33	.28	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.25	.38	.31	.25	.37	.30	.25	.36	.30	.25	.35	.29	.25	.23



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Checker: LI

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

Assessor:

WEC AND CCEC

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 Coeffcients(WEC)									
0.0																
1.0	.282	.161	.051	.275	.157	.050	.262	.151	.048	.250	.144	.046	.239	.139	.045	
2.0	.276	.151	.046	.270	.149	.046	.259	.144	.045	.248	.139	.044	.238	.135	.042	
3.0	.262	.139	.042	.256	.137	.041	.246	.133	.041	.236	.130	.040	.228	.126	.039	
4.0	.245	.127	.037	.240	.126	.037	.231	.123	.037	.223	.120	.036	.215	.117	.036	
5.0	.229	.116	.034	.224	.115	.034	.216	.113	.033	.209	.110	.033	.202	.108	.032	
6.0	.213	.107	.031	.210	.106	.030	.202	.104	.030	.195	.102	.030	.189	.100	.030	
7.0	.199	.099	.028	.196	.098	.028	.189	.096	.028	.183	.094	.027	.178	.092	.027	
8.0	.187	.091	.026	.184	.090	.026	.178	.089	.025	.172	.087	.025	.167	.086	.025	
9.0	.175	.085	.024	.173	.084	.024	.167	.083	.023	.162	.081	.023	.158	.080	.023	
10.0	.165	.079	.022	.163	.078	.022	.158	.077	.022	.153	.076	.022	.149	.075	.022	

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	.178	.156	.137	.153	.134	.117	.104	.092	.081	.060	.053	.047	.019	.017	.015	
2.0	.170	.132	.100	.146	.114	.086	.100	.079	.060	.058	.046	.035	.018	.015	.012	
3.0	.163	.114	.075	.140	.099	.065	.096	.068	.046	.055	.040	.027	.018	.013	.009	
4.0	.156	.101	.059	.134	.087	.051	.092	.061	.036	.053	.036	.021	.017	.012	.007	
5.0	.149	.091	.047	.128	.078	.041	.088	.055	.029	.051	.032	.017	.016	.010	.006	
6.0	.142	.082	.039	.122	.071	.034	.084	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.136	.075	.033	.117	.065	.029	.081	.046	.020	.047	.027	.012	.015	.009	.004	
8.0	.129	.070	.029	.111	.060	.025	.077	.042	.018	.045	.025	.011	.015	.008	.003	
9.0	.123	.065	.025	.106	.056	.022	.074	.039	.016	.043	.023	.009	.014	.008	.003	
10.0	.118	.060	.022	.102	.052	.019	.070	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
C Interval: 2.5DEG
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γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

Assessor:

UGR(Unified Glare Rating) Table

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	28.6	30.1	28.8	30.3	30.5	34.1	35.7	34.4	35.9	36.1
	3H	28.9	30.3	29.2	30.5	30.8	34.7	36.1	35.0	36.3	36.6
	4H	28.9	30.2	29.2	30.4	30.7	34.7	36.0	35.0	36.2	36.5
	6H	28.8	30.0	29.1	30.3	30.6	34.6	35.8	34.9	36.1	36.3
	8H	28.8	30.0	29.1	30.2	30.5	34.5	35.7	34.8	36.0	36.3
	12H	28.7	29.9	29.1	30.1	30.5	34.5	35.6	34.8	35.9	36.2
4H	2H	30.1	31.4	30.4	31.7	31.9	34.3	35.6	34.6	35.9	36.1
	3H	30.4	31.5	30.7	31.8	32.1	35.0	36.2	35.4	36.5	36.8
	4H	30.4	31.4	30.8	31.8	32.1	35.0	36.0	35.4	36.4	36.7
	6H	30.3	31.3	30.7	31.6	32.0	34.9	35.9	35.3	36.2	36.6
	8H	30.3	31.1	30.7	31.5	31.9	34.9	35.7	35.3	36.1	36.5
	12H	30.3	31.0	30.7	31.4	31.8	34.9	35.6	35.3	36.0	36.4
8H	4H	30.5	31.4	30.9	31.8	32.1	34.9	35.8	35.3	36.1	36.5
	6H	30.5	31.2	30.9	31.6	32.0	34.9	35.6	35.3	36.0	36.4
	8H	30.5	31.1	30.9	31.5	32.0	34.8	35.4	35.3	35.9	36.3
	12H	30.4	31.0	30.9	31.4	31.9	34.8	35.3	35.3	35.8	36.2
12H	4H	30.5	31.3	30.9	31.7	32.1	34.9	35.7	35.3	36.0	36.4
	6H	30.5	31.1	30.9	31.5	32.0	34.8	35.4	35.3	35.9	36.3
	8H	30.4	31.0	30.9	31.4	31.9	34.8	35.3	35.3	35.8	36.2

Variations with the observer position at spacings:		
S = 1.0H	+ 0.6 / - 0.7	+ 0.3 / - 0.4
1.5H	+ 0.3 / - 0.3	+ 1.1 / - 1.5
2.0H	+ 1.1 / - 1.9	+ 1.0 / - 2.5

CIE Pub.117 Corrected 6903 lm Total Lamp Luminous Flux.(8log(F/F0) = 6.7)

C Range: 0 - 360DEG
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Operators:
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Checker: LI

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

Assessor:

UTILIZATION FACTORS TABLE

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) x RCR = 5									
k = 0.60	56	44	36	55	43	36	54	43	36	29
0.80	67	55	47	65	54	47	64	53	47	40
1.00	76	65	58	75	64	57	73	66	57	50
1.25	84	73	66	82	73	66	80	71	65	58
1.50	89	79	72	87	78	72	84	77	71	63
2.00	96	88	82	94	87	81	91	85	79	72
2.50	100	93	87	98	91	86	94	89	84	76
3.00	103	97	92	101	95	91	97	92	88	80
4.00	107	102	98	105	100	96	101	97	93	85
5.00	109	105	101	107	103	100	103	99	97	88
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

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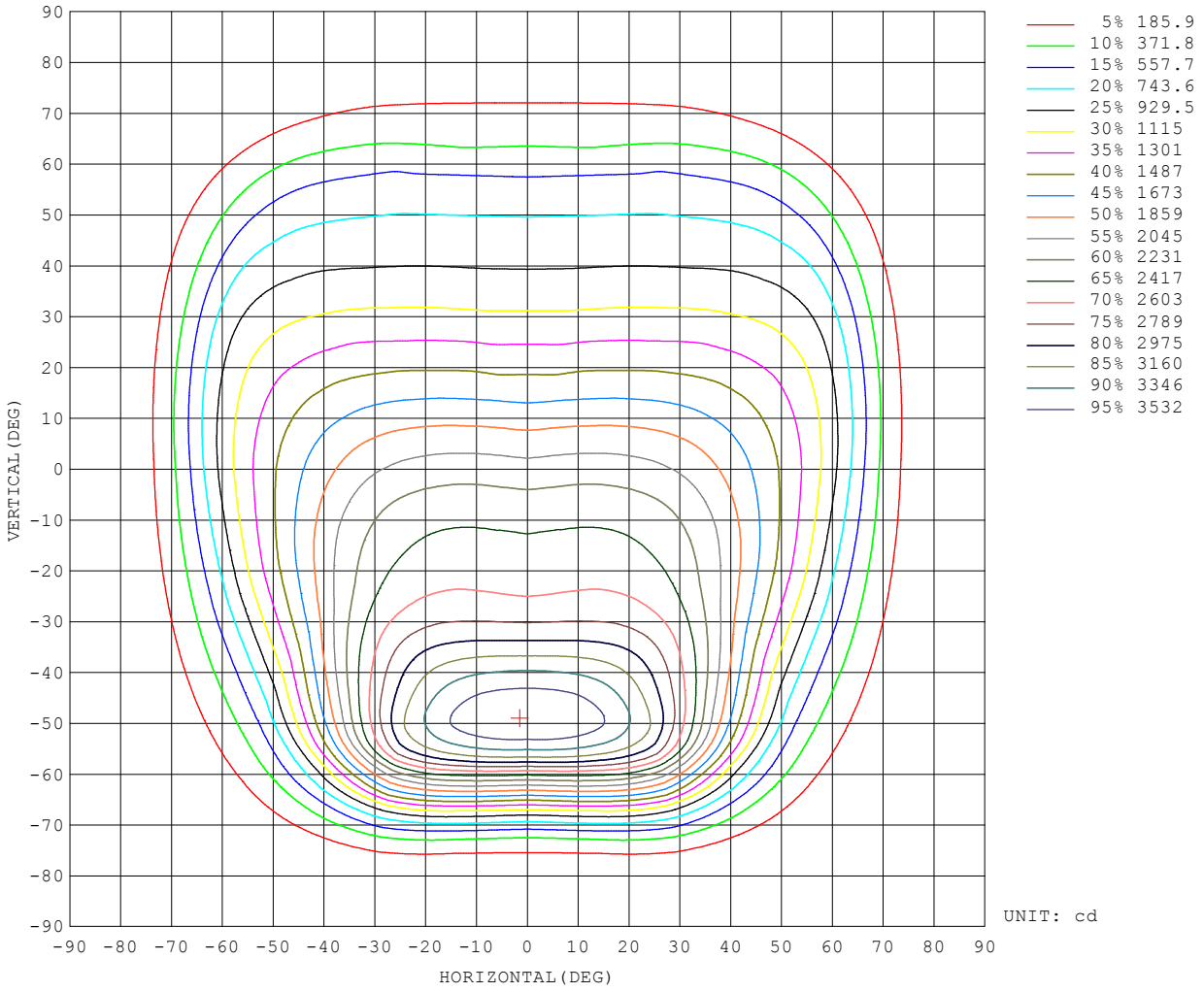
ISOCANDELA DIAGRAM



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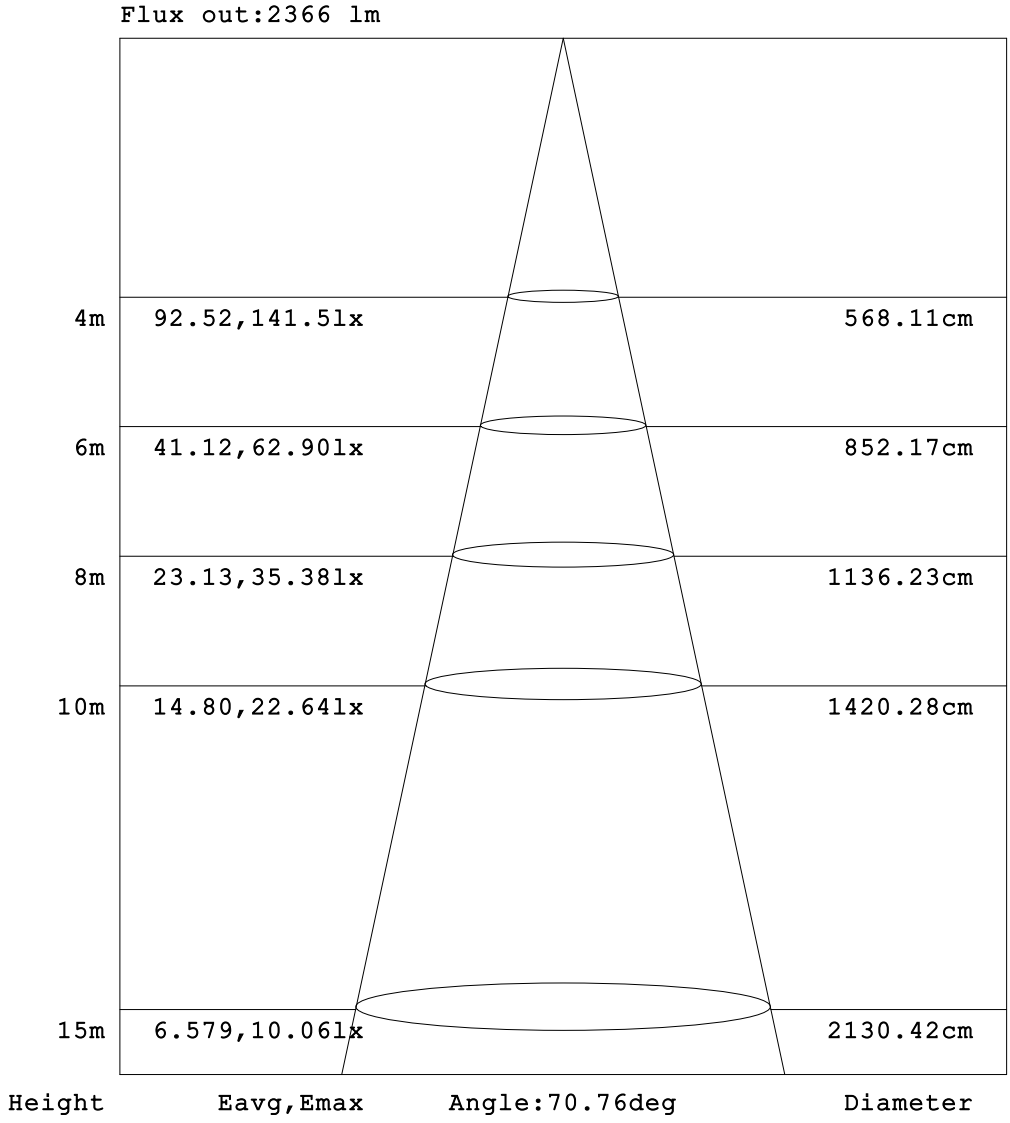
AAI Figure



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

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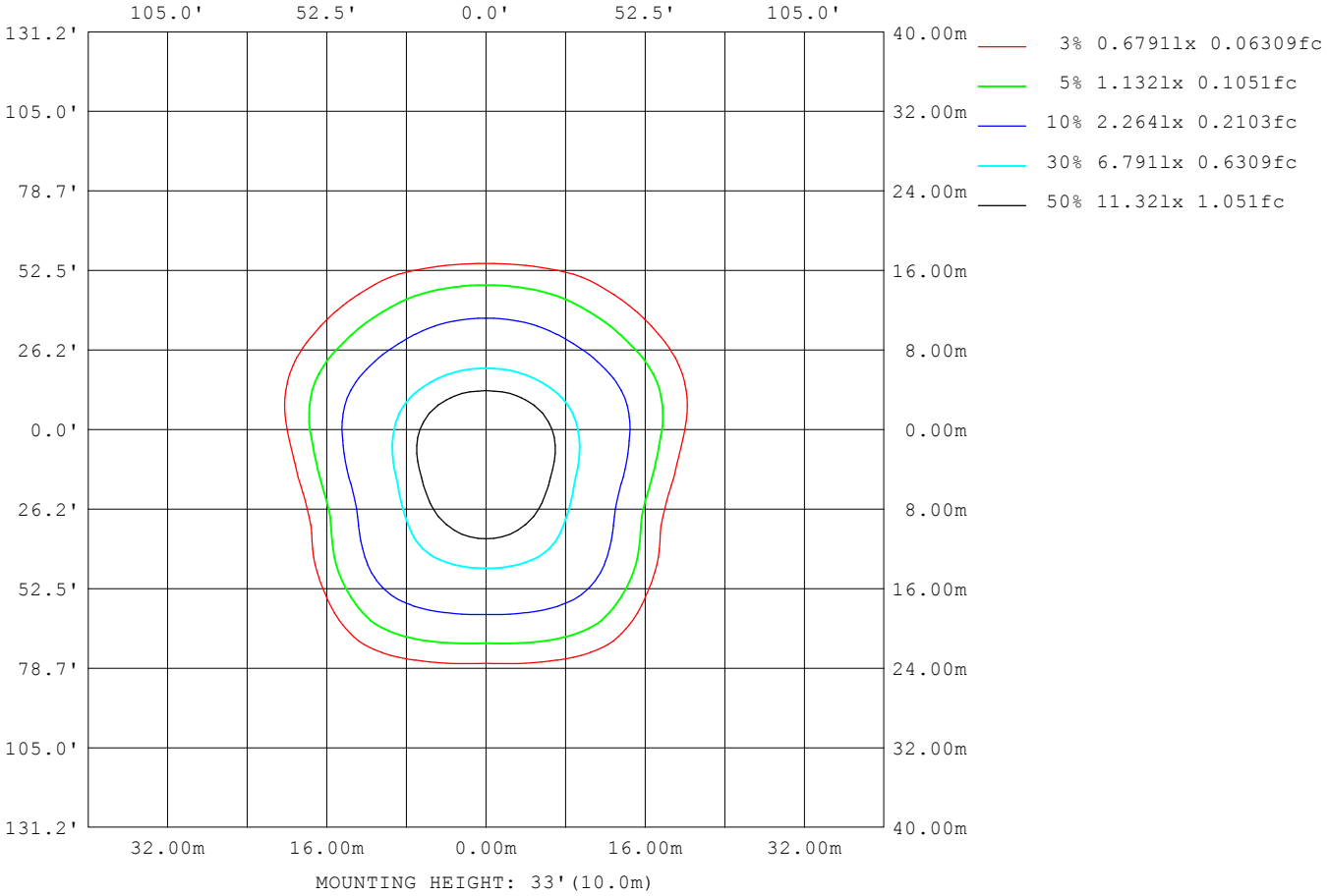
ISOLUX DIAGRAM



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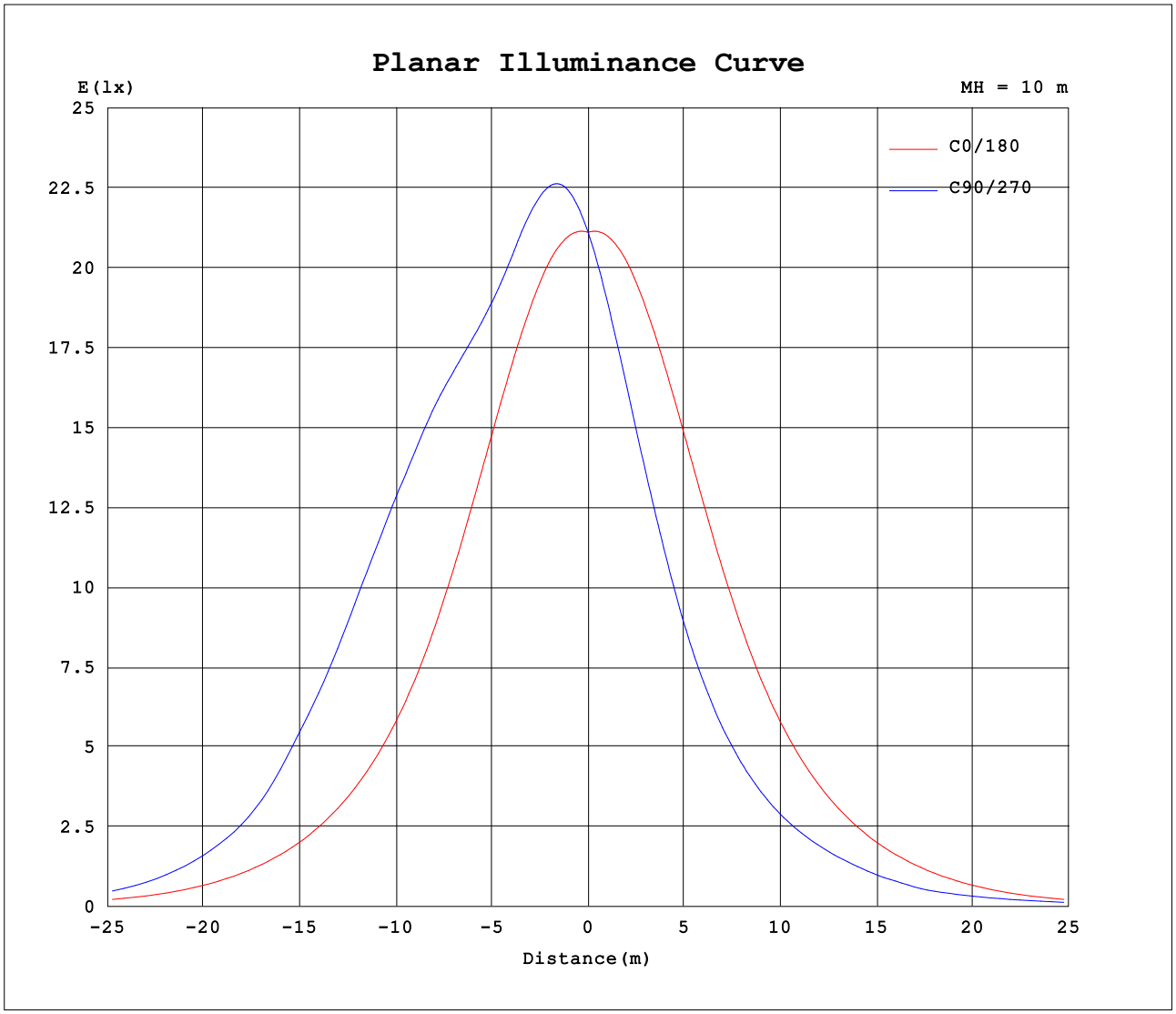
Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-09-25

Checker: LI

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

Assessor:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--1 UNIT: cd

γ (DEG) \ C(DEG)	0	2.5	5	7.5	10	12.5	15	17.5	20	22.5	25	27.5	30	32.5	35	37.5	40	42.5	45
0	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111
5	2129	2136	2142	2149	2155	2161	2167	2173	2178	2184	2189	2194	2199	2204	2209	2213	2218	2222	2226
10	2142	2156	2169	2182	2195	2207	2218	2229	2240	2250	2260	2269	2278	2287	2295	2303	2311	2318	2324
15	2140	2161	2181	2201	2219	2237	2254	2271	2286	2301	2315	2328	2340	2353	2364	2375	2385	2394	2403
20	2123	2150	2176	2201	2225	2248	2271	2292	2312	2331	2350	2367	2383	2399	2415	2429	2442	2454	2465
25	2086	2119	2151	2181	2211	2239	2266	2291	2315	2338	2360	2381	2401	2421	2441	2460	2477	2494	2509
30	2021	2058	2095	2130	2164	2196	2228	2257	2285	2313	2339	2365	2390	2416	2441	2467	2491	2516	2539
35	1923	1961	1997	2034	2070	2106	2141	2175	2208	2242	2276	2310	2345	2382	2420	2459	2499	2539	2580
40	1793	1826	1860	1894	1929	1965	2002	2036	2071	2108	2148	2190	2236	2293	2353	2416	2482	2549	2617
45	1641	1663	1687	1714	1743	1774	1808	1838	1872	1910	1952	2001	2057	2132	2214	2301	2393	2488	2585
50	1464	1471	1482	1496	1514	1535	1561	1582	1607	1640	1680	1729	1789	1877	1976	2084	2200	2321	2446
55	1254	1246	1243	1244	1249	1259	1273	1280	1293	1315	1346	1390	1447	1541	1649	1770	1901	2043	2192
60	985	960	940	926	917	915	919	918	924	940	968	1009	1066	1165	1278	1405	1542	1688	1839
65	646	619	597	581	571	566	566	565	571	584	607	641	687	767	858	958	1064	1174	1286
70	327	311	300	291	287	286	289	295	304	318	336	359	388	430	476	525	577	630	683
75	136	132	129	127	126	127	128	131	135	141	148	156	166	180	195	211	227	244	261
80	46.7	46.0	45.6	45.3	45.4	45.6	46.2	47.0	48.0	49.3	50.8	52.5	54.3	56.5	58.8	61.2	63.7	66.1	68.4
85	14.5	14.4	14.3	14.3	14.2	14.2	14.3	14.4	14.5	14.6	14.8	15.0	15.2	15.6	15.9	16.3	16.7	17.1	17.4
90	6.73	6.70	6.68	6.66	6.65	6.65	6.65	6.67	6.70	6.73	6.75	6.78	6.79	6.78	6.75	6.72	6.69	6.65	6.60

C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-09-25

Checker: LI

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

Assessor:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--2 UNIT: cd

C(DEG) / γ (DEG)	47.5	50	52.5	55	57.5	60	62.5	65	67.5	70	72.5	75	77.5	80	82.5	85	87.5	90	92.5
0	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111
5	2229	2232	2235	2238	2241	2243	2246	2248	2249	2251	2252	2253	2254	2255	2256	2256	2256	2255	2256
10	2330	2335	2340	2344	2349	2352	2356	2359	2362	2364	2366	2368	2369	2370	2370	2370	2370	2369	2370
15	2410	2417	2423	2428	2433	2437	2441	2445	2448	2450	2452	2453	2454	2454	2453	2452	2451	2449	2451
20	2474	2482	2488	2494	2499	2504	2508	2512	2515	2518	2520	2521	2521	2520	2519	2517	2515	2513	2515
25	2522	2534	2545	2554	2563	2570	2577	2584	2589	2593	2597	2600	2602	2603	2603	2603	2602	2601	2602
30	2563	2587	2609	2631	2652	2671	2688	2704	2719	2732	2743	2753	2761	2768	2773	2776	2778	2778	2778
35	2623	2666	2708	2750	2790	2828	2863	2894	2923	2950	2973	2994	3011	3025	3036	3043	3048	3048	3048
40	2686	2756	2824	2890	2954	3015	3069	3119	3165	3207	3244	3276	3303	3325	3343	3355	3363	3365	3363
45	2683	2781	2878	2972	3062	3148	3223	3292	3355	3411	3461	3505	3542	3572	3596	3613	3623	3627	3623
50	2577	2707	2837	2963	3084	3199	3294	3380	3457	3524	3581	3629	3661	3684	3699	3707	3708	3704	3708
55	2363	2535	2706	2869	3020	3156	3233	3292	3335	3364	3381	3390	3395	3395	3390	3383	3375	3368	3375
60	2012	2184	2349	2501	2636	2748	2775	2778	2762	2731	2689	2641	2603	2565	2529	2498	2474	2460	2474
65	1403	1516	1622	1717	1799	1863	1870	1860	1836	1801	1759	1712	1668	1625	1585	1551	1526	1511	1526
70	739	792	841	883	918	943	935	918	893	864	830	795	764	735	709	687	671	663	671
75	279	296	311	323	332	337	328	314	298	280	262	244	233	223	215	209	206	206	206
80	70.8	73.0	74.9	76.5	77.6	78.3	77.2	75.7	73.9	71.8	69.5	67.3	65.3	63.5	61.9	60.7	60.0	59.8	60.0
85	17.8	18.1	18.4	18.7	18.9	19.1	19.0	19.0	18.9	18.8	18.6	18.5	18.3	18.2	18.1	18.0	18.0	18.0	18.0
90	6.56	6.51	6.46	6.41	6.37	6.33	6.29	6.27	6.24	6.23	6.21	6.20	6.19	6.19	6.19	6.20	6.21	6.22	6.21

C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-09-25

Checker: LI

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

Assessor:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--3 UNIT: cd

C(DEG) / γ (DEG)	95	97.5	100	102.5	105	107.5	110	112.5	115	117.5	120	122.5	125	127.5	130	132.5	135	137.5	140
0	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111
5	2256	2256	2255	2254	2253	2252	2251	2249	2248	2246	2243	2241	2238	2235	2232	2229	2226	2222	2218
10	2370	2370	2370	2369	2368	2366	2364	2362	2359	2356	2352	2349	2344	2340	2335	2330	2324	2318	2311
15	2452	2453	2454	2454	2453	2452	2450	2448	2445	2441	2437	2433	2428	2423	2417	2410	2403	2394	2385
20	2517	2519	2520	2521	2521	2520	2518	2515	2512	2508	2504	2499	2494	2488	2482	2474	2465	2454	2442
25	2603	2603	2603	2602	2600	2597	2593	2589	2584	2577	2570	2563	2554	2545	2534	2522	2509	2494	2477
30	2776	2773	2768	2761	2753	2743	2732	2719	2704	2688	2671	2652	2631	2609	2587	2563	2539	2516	2491
35	3043	3036	3025	3011	2994	2973	2950	2923	2894	2863	2828	2790	2750	2708	2666	2623	2580	2539	2499
40	3355	3343	3325	3303	3276	3244	3207	3165	3119	3069	3015	2954	2890	2824	2756	2686	2617	2549	2482
45	3613	3596	3572	3542	3505	3461	3411	3355	3292	3223	3148	3062	2972	2878	2781	2683	2585	2488	2393
50	3707	3699	3684	3661	3629	3581	3524	3457	3380	3294	3199	3084	2963	2837	2707	2577	2446	2321	2200
55	3383	3390	3395	3395	3390	3381	3364	3335	3292	3233	3156	3020	2869	2706	2535	2363	2192	2043	1901
60	2498	2529	2565	2603	2641	2689	2731	2762	2778	2775	2748	2636	2501	2349	2184	2012	1839	1688	1542
65	1551	1585	1625	1668	1712	1759	1801	1836	1860	1870	1863	1799	1717	1622	1516	1403	1286	1174	1064
70	687	709	735	764	795	830	864	893	918	935	943	918	883	841	792	739	683	630	577
75	209	215	223	233	244	262	280	298	314	328	337	332	323	311	296	279	261	244	227
80	60.7	61.9	63.5	65.3	67.3	69.5	71.8	73.9	75.7	77.2	78.3	77.6	76.5	74.9	73.0	70.8	68.4	66.1	63.7
85	18.0	18.1	18.2	18.3	18.5	18.6	18.8	18.9	19.0	19.0	19.1	18.9	18.7	18.4	18.1	17.8	17.4	17.1	16.7
90	6.20	6.19	6.19	6.19	6.20	6.21	6.23	6.24	6.27	6.29	6.33	6.37	6.41	6.46	6.51	6.56	6.60	6.65	6.69

C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-09-25

Checker: LI

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

Assessor:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--4 UNIT: cd

C(DEG) / γ (DEG)	142.5	145	147.5	150	152.5	155	157.5	160	162.5	165	167.5	170	172.5	175	177.5	180	182.5	185	187.5
0	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111
5	2213	2209	2204	2199	2194	2189	2184	2178	2173	2167	2161	2155	2149	2142	2136	2129	2123	2116	2109
10	2303	2295	2287	2278	2269	2260	2250	2240	2229	2218	2207	2195	2182	2169	2156	2142	2128	2114	2100
15	2375	2364	2353	2340	2328	2315	2301	2286	2271	2254	2237	2219	2201	2181	2161	2140	2120	2100	2079
20	2429	2415	2399	2383	2367	2350	2331	2312	2292	2271	2248	2225	2201	2176	2150	2123	2096	2069	2042
25	2460	2441	2421	2401	2381	2360	2338	2315	2291	2266	2239	2211	2181	2151	2119	2086	2054	2021	1989
30	2467	2441	2416	2390	2365	2339	2313	2285	2257	2228	2196	2164	2130	2095	2058	2021	1986	1950	1914
35	2459	2420	2382	2345	2310	2276	2242	2208	2175	2141	2106	2070	2034	1997	1961	1923	1889	1853	1817
40	2416	2353	2293	2236	2190	2148	2108	2071	2036	2002	1965	1929	1894	1860	1826	1793	1763	1731	1698
45	2301	2214	2132	2057	2001	1952	1910	1872	1838	1808	1774	1743	1714	1687	1663	1641	1618	1593	1566
50	2084	1976	1877	1789	1729	1680	1640	1607	1582	1561	1535	1514	1496	1482	1471	1464	1451	1434	1414
55	1770	1649	1541	1447	1390	1346	1315	1293	1280	1273	1259	1249	1244	1243	1246	1254	1252	1246	1237
60	1405	1278	1165	1066	1009	968	940	924	918	919	915	917	926	940	960	985	1000	1011	1016
65	958	858	767	687	641	607	584	571	565	566	566	571	581	597	619	646	677	703	724
70	525	476	430	388	359	336	318	304	295	289	286	287	291	300	311	327	352	374	393
75	211	195	180	166	156	148	141	135	131	128	127	126	127	129	132	136	149	160	170
80	61.2	58.8	56.5	54.3	52.5	50.8	49.3	48.0	47.0	46.2	45.6	45.4	45.3	45.6	46.0	46.7	50.7	54.2	57.3
85	16.3	15.9	15.6	15.2	15.0	14.8	14.6	14.5	14.4	14.3	14.2	14.2	14.3	14.3	14.4	14.5	14.9	15.3	15.7
90	6.72	6.75	6.78	6.79	6.78	6.75	6.73	6.70	6.67	6.65	6.65	6.65	6.66	6.68	6.70	6.73	6.77	6.82	6.88

C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-09-25

Checker: LI

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

Assessor:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--5 UNIT: cd

C(DEG) / γ (DEG)	190	192.5	195	197.5	200	202.5	205	207.5	210	212.5	215	217.5	220	222.5	225	227.5	230	232.5	235
0	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111
5	2102	2095	2088	2081	2073	2066	2060	2053	2046	2039	2033	2027	2020	2014	2009	2003	1998	1993	1988
10	2086	2072	2058	2044	2029	2015	2001	1988	1974	1961	1948	1935	1922	1910	1898	1887	1876	1865	1855
15	2058	2037	2016	1995	1973	1952	1931	1910	1890	1869	1849	1830	1811	1793	1775	1759	1744	1729	1715
20	2015	1987	1960	1932	1904	1876	1849	1823	1797	1771	1746	1722	1698	1675	1653	1633	1613	1594	1576
25	1956	1923	1890	1856	1823	1789	1757	1724	1693	1663	1633	1604	1576	1550	1524	1501	1478	1457	1437
30	1878	1842	1805	1768	1730	1693	1657	1621	1586	1552	1519	1487	1455	1426	1397	1370	1345	1322	1300
35	1780	1742	1704	1665	1625	1586	1547	1509	1471	1434	1398	1363	1329	1297	1266	1239	1213	1189	1167
40	1664	1629	1593	1554	1515	1476	1436	1397	1358	1319	1281	1244	1208	1174	1142	1116	1091	1069	1049
45	1537	1505	1472	1433	1393	1351	1310	1268	1228	1190	1153	1117	1084	1052	1023	999	978	958	941
50	1391	1365	1336	1299	1261	1221	1180	1140	1100	1065	1032	1000	970	942	917	896	877	860	845
55	1223	1206	1184	1154	1120	1085	1048	1011	975	944	914	886	860	836	814	796	780	766	753
60	1016	1012	1002	981	956	928	898	867	836	811	788	766	744	724	705	689	674	659	644
65	739	749	754	748	737	723	705	686	665	647	629	611	593	574	555	535	516	497	478
70	409	421	431	436	437	437	433	428	420	412	402	390	378	366	353	340	328	315	303
75	178	185	190	192	192	192	191	188	186	184	181	179	176	174	171	169	167	166	164
80	59.8	61.8	63.3	63.7	63.6	63.2	62.5	61.7	60.9	60.8	60.8	60.9	61.0	61.3	61.6	62.2	63.0	63.6	64.3
85	16.0	16.4	16.7	17.0	17.3	17.6	17.9	18.2	18.4	18.7	18.9	19.2	19.4	19.7	19.9	20.2	20.5	20.7	20.9
90	6.96	7.06	7.18	7.32	7.48	7.65	7.82	8.00	8.18	8.36	8.53	8.70	8.87	9.02	9.16	9.27	9.37	9.46	9.54

C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-09-25

Checker: LI

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

Assessor:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--6 UNIT: cd

C(DEG) / γ (DEG)	237.5	240	242.5	245	247.5	250	252.5	255	257.5	260	262.5	265	267.5	270	272.5	275	277.5	280	282.5
0	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111
5	1983	1979	1975	1971	1967	1963	1960	1957	1955	1953	1951	1950	1949	1948	1949	1950	1951	1953	1955
10	1846	1837	1828	1820	1812	1805	1798	1793	1788	1784	1781	1779	1777	1776	1777	1779	1781	1784	1788
15	1702	1690	1677	1666	1655	1645	1636	1629	1622	1617	1612	1609	1606	1605	1606	1609	1612	1617	1622
20	1558	1542	1525	1509	1494	1481	1469	1458	1452	1448	1445	1443	1442	1442	1442	1443	1445	1448	1452
25	1418	1400	1382	1364	1348	1333	1320	1308	1301	1295	1291	1288	1287	1286	1287	1288	1291	1295	1301
30	1279	1259	1240	1222	1206	1191	1178	1167	1159	1153	1149	1146	1144	1143	1144	1146	1149	1153	1159
35	1146	1127	1109	1093	1078	1065	1053	1043	1036	1030	1026	1022	1020	1020	1020	1022	1026	1030	1036
40	1030	1013	997	982	969	957	947	938	931	926	921	918	916	915	916	918	921	926	931
45	925	911	897	884	873	863	854	847	840	834	830	826	824	822	824	826	830	834	840
50	831	819	806	794	783	774	765	757	751	746	742	739	737	736	737	739	742	746	751
55	741	729	716	703	691	679	669	660	652	645	640	636	633	631	633	636	640	645	652
60	630	615	595	576	556	538	520	504	491	481	472	465	460	458	460	465	472	481	491
65	459	441	423	405	388	373	360	348	343	340	338	337	338	339	338	337	338	340	343
70	292	281	271	262	254	247	241	236	234	232	231	231	231	232	231	231	231	232	234
75	161	159	154	149	144	139	135	131	128	127	126	125	124	124	124	125	126	127	128
80	64.7	65.0	64.4	63.6	62.8	61.8	60.9	60.0	59.7	59.5	59.5	59.4	59.5	59.6	59.5	59.4	59.5	59.5	59.7
85	21.2	21.4	21.5	21.6	21.6	21.7	21.8	21.8	21.9	22.0	22.1	22.2	22.2	22.3	22.2	22.2	22.1	22.0	21.9
90	9.61	9.68	9.75	9.81	9.87	9.93	9.98	10.0	10.1	10.1	10.1	10.2	10.2	10.2	10.2	10.2	10.1	10.1	10.1

C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-09-25

Checker: LI

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

Assessor:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--7 UNIT: cd

C(DEG) / γ (DEG)	285	287.5	290	292.5	295	297.5	300	302.5	305	307.5	310	312.5	315	317.5	320	322.5	325	327.5	330
0	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111
5	1957	1960	1963	1967	1971	1975	1979	1983	1988	1993	1998	2003	2009	2014	2020	2027	2033	2039	2046
10	1793	1798	1805	1812	1820	1828	1837	1846	1855	1865	1876	1887	1898	1910	1922	1935	1948	1961	1974
15	1629	1636	1645	1655	1666	1677	1690	1702	1715	1729	1744	1759	1775	1793	1811	1830	1849	1869	1890
20	1458	1469	1481	1494	1509	1525	1542	1558	1576	1594	1613	1633	1653	1675	1698	1722	1746	1771	1797
25	1308	1320	1333	1348	1364	1382	1400	1418	1437	1457	1478	1501	1524	1550	1576	1604	1633	1663	1693
30	1167	1178	1191	1206	1222	1240	1259	1279	1300	1322	1345	1370	1397	1426	1455	1487	1519	1552	1586
35	1043	1053	1065	1078	1093	1109	1127	1146	1167	1189	1213	1239	1266	1297	1329	1363	1398	1434	1471
40	938	947	957	969	982	997	1013	1030	1049	1069	1091	1116	1142	1174	1208	1244	1281	1319	1358
45	847	854	863	873	884	897	911	925	941	958	978	999	1023	1052	1084	1117	1153	1190	1228
50	757	765	774	783	794	806	819	831	845	860	877	896	917	942	970	1000	1032	1065	1100
55	660	669	679	691	703	716	729	741	753	766	780	796	814	836	860	886	914	944	975
60	504	520	538	556	576	595	615	630	644	659	674	689	705	724	744	766	788	811	836
65	348	360	373	388	405	423	441	459	478	497	516	535	555	574	593	611	629	647	665
70	236	241	247	254	262	271	281	292	303	315	328	340	353	366	378	390	402	412	420
75	131	135	139	144	149	154	159	161	164	166	167	169	171	174	176	179	181	184	186
80	60.0	60.9	61.8	62.8	63.6	64.4	65.0	64.7	64.3	63.6	63.0	62.2	61.6	61.3	61.0	60.9	60.8	60.8	60.9
85	21.8	21.8	21.7	21.6	21.6	21.5	21.4	21.2	20.9	20.7	20.5	20.2	19.9	19.7	19.4	19.2	18.9	18.7	18.4
90	10.0	9.98	9.93	9.87	9.81	9.75	9.68	9.61	9.54	9.46	9.37	9.27	9.16	9.02	8.87	8.70	8.53	8.36	8.18

C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-09-25

Checker: LI

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

Assessor:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--8 UNIT: cd

C(DEG) / γ (DEG)	332.5	335	337.5	340	342.5	345	347.5	350	352.5	355	357.5								
0	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111								
5	2053	2060	2066	2073	2081	2088	2095	2102	2109	2116	2123								
10	1988	2001	2015	2029	2044	2058	2072	2086	2100	2114	2128								
15	1910	1931	1952	1973	1995	2016	2037	2058	2079	2100	2120								
20	1823	1849	1876	1904	1932	1960	1987	2015	2042	2069	2096								
25	1724	1757	1789	1823	1856	1890	1923	1956	1989	2021	2054								
30	1621	1657	1693	1730	1768	1805	1842	1878	1914	1950	1986								
35	1509	1547	1586	1625	1665	1704	1742	1780	1817	1853	1889								
40	1397	1436	1476	1515	1554	1593	1629	1664	1698	1731	1763								
45	1268	1310	1351	1393	1433	1472	1505	1537	1566	1593	1618								
50	1140	1180	1221	1261	1299	1336	1365	1391	1414	1434	1451								
55	1011	1048	1085	1120	1154	1184	1206	1223	1237	1246	1252								
60	867	898	928	956	981	1002	1012	1016	1016	1011	1000								
65	686	705	723	737	748	754	749	739	724	703	677								
70	428	433	437	437	436	431	421	409	393	374	352								
75	188	191	192	192	192	190	185	178	170	160	149								
80	61.7	62.5	63.2	63.6	63.7	63.3	61.8	59.8	57.3	54.2	50.7								
85	18.2	17.9	17.6	17.3	17.0	16.7	16.4	16.0	15.7	15.3	14.9								
90	8.00	7.82	7.65	7.48	7.32	7.18	7.06	6.96	6.88	6.82	6.77								

C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-09-25

Checker: LI

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

Assessor: