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## Nata

Client:

LumCAT: 2-2755-L

Luminaire: 92.70.412.00

Report No: 2024815-B020

Ballast type: AC

Test No: 2024815-C020

Voltage(V): 35.560

LampCAT: BRIDGELUX V13B LES13

Current(A): 0.450

Lamp flux(lm): 2544.0

Power (W): 16.000

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

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## Photometric Results

Lumens(lm): 2363.01, Efficiency(%): 92.89% , Luminous Efficacy(lm/W): 147.69

Central intensity(cd): 8738.424, Maximum intensity(cd): 8738.424

Angle of maximum intensity: C=0.0  $\gamma$ =0.0

Beam Angle(50%Imax): [C0/180]Total=24.4

[C90/270]Total=24.4

Field angle(10%Imax): [C0/180]Total=56.0

[C90/270]Total=56.0

Maximum s/h(1/2): C0\_180=0.41 C90\_270=0.41

Maximum s/h(1/4): C0\_180=0.43 C90\_270=0.43

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 92.89%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 99.212%

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Equipment: GMS 1800  
Temperature(°C): 25.0

Date: 2024/8/15  
Humidity(%): 60.0%

Operator: NT  
Distance(m): 7.25

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	8738.424	0.000	0	0.00%	0.00%
1.0	8694.968	8.342	8.342	0.33%	0.35%
2.0	8567.359	24.777	33.118	0.97%	1.40%
3.0	8334.888	40.425	73.543	1.59%	3.11%
4.0	8044.756	54.828	128.371	2.16%	5.43%
5.0	7720.327	67.821	196.191	2.67%	8.30%
6.0	7310.189	78.989	275.181	3.10%	11.65%
7.0	6881.384	88.087	363.267	3.46%	15.37%
8.0	6450.923	95.417	458.684	3.75%	19.41%
9.0	5953.170	100.528	559.213	3.95%	23.67%
10.0	5443.497	103.136	662.348	4.05%	28.03%
11.0	4971.296	104.065	766.413	4.09%	32.43%
12.0	4477.931	103.294	869.707	4.06%	36.81%
13.0	4035.263	101.030	970.737	3.97%	41.08%
14.0	3593.232	97.644	1068.381	3.84%	45.21%
15.0	3190.327	93.128	1161.509	3.66%	49.15%
16.0	2816.404	88.015	1249.524	3.46%	52.88%
17.0	2518.959	83.086	1332.61	3.27%	56.39%
18.0	2239.327	78.454	1411.064	3.08%	59.71%
19.0	1977.802	73.369	1484.433	2.88%	62.82%
20.0	1778.754	68.755	1553.189	2.70%	65.73%
21.0	1598.794	64.856	1618.045	2.55%	68.47%
22.0	1423.103	60.726	1678.771	2.39%	71.04%
23.0	1302.906	57.199	1735.97	2.25%	73.46%
24.0	1197.236	54.662	1790.632	2.15%	75.78%
25.0	1093.990	52.097	1842.729	2.05%	77.98%
26.0	1026.684	50.059	1892.788	1.97%	80.10%
27.0	947.945	48.310	1941.098	1.90%	82.15%
28.0	870.080	46.029	1987.126	1.81%	84.09%
29.0	797.307	43.624	2030.75	1.71%	85.94%
30.0	718.976	40.939	2071.689	1.61%	87.67%
31.0	631.749	37.589	2109.278	1.48%	89.26%
32.0	564.679	34.276	2143.554	1.35%	90.71%
33.0	482.340	30.846	2174.4	1.21%	92.02%
34.0	400.888	26.729	2201.129	1.05%	93.15%
35.0	340.375	23.021	2224.15	0.90%	94.12%
36.0	272.287	19.507	2243.657	0.77%	94.95%
37.0	214.126	15.864	2259.521	0.62%	95.62%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	167.306	12.732	2272.253	0.50%	96.16%
39.0	122.766	9.901	2282.154	0.39%	96.58%
40.0	83.318	7.187	2289.341	0.28%	96.88%
41.0	65.690	5.306	2294.648	0.21%	97.11%
42.0	56.229	4.430	2299.077	0.17%	97.29%
43.0	51.439	3.988	2303.065	0.16%	97.46%
44.0	46.886	3.711	2306.776	0.15%	97.62%
45.0	42.694	3.443	2310.219	0.14%	97.77%
46.0	39.244	3.204	2313.423	0.13%	97.90%
47.0	36.130	2.998	2316.421	0.12%	98.03%
48.0	33.364	2.809	2319.231	0.11%	98.15%
49.0	31.025	2.644	2321.875	0.10%	98.26%
50.0	29.054	2.505	2324.38	0.10%	98.37%
51.0	27.149	2.378	2326.758	0.09%	98.47%
52.0	25.736	2.269	2329.027	0.09%	98.56%
53.0	24.566	2.188	2331.215	0.09%	98.65%
54.0	23.318	2.111	2333.326	0.08%	98.74%
55.0	22.116	2.028	2335.354	0.08%	98.83%
56.0	21.176	1.956	2337.31	0.08%	98.91%
57.0	20.151	1.890	2339.199	0.07%	98.99%
58.0	19.146	1.817	2341.017	0.07%	99.07%
59.0	17.957	1.735	2342.751	0.07%	99.14%
60.0	16.866	1.645	2344.396	0.06%	99.21%
61.0	15.749	1.556	2345.953	0.06%	99.28%
62.0	14.580	1.461	2347.414	0.06%	99.34%
63.0	13.436	1.363	2348.777	0.05%	99.40%
64.0	12.359	1.266	2350.043	0.05%	99.45%
65.0	11.354	1.173	2351.216	0.05%	99.50%
66.0	10.335	1.082	2352.298	0.04%	99.55%
67.0	9.442	0.994	2353.293	0.04%	99.59%
68.0	8.725	0.920	2354.213	0.04%	99.63%
69.0	8.042	0.855	2355.068	0.03%	99.66%
70.0	7.332	0.790	2355.858	0.03%	99.70%
71.0	6.643	0.722	2356.58	0.03%	99.73%
72.0	6.038	0.659	2357.24	0.03%	99.76%
73.0	5.585	0.608	2357.847	0.02%	99.78%
74.0	5.125	0.563	2358.41	0.02%	99.81%
75.0	4.665	0.517	2358.928	0.02%	99.83%

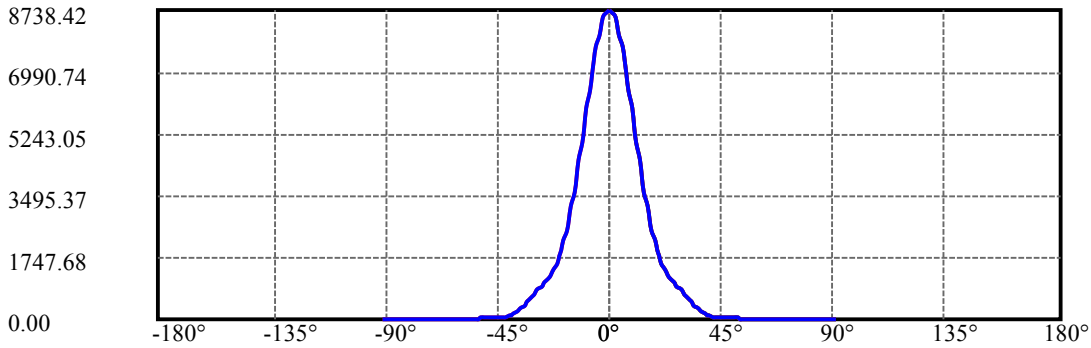
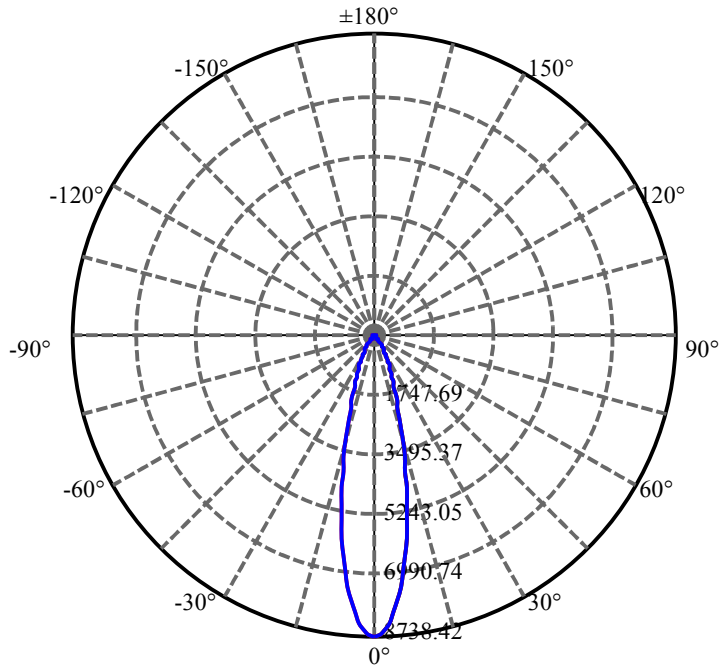
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	4.264	0.474	2359.402	0.02%	99.85%
77.0	3.942	0.438	2359.839	0.02%	99.87%
78.0	3.620	0.405	2360.244	0.02%	99.88%
79.0	3.318	0.373	2360.617	0.01%	99.90%
80.0	3.029	0.342	2360.959	0.01%	99.91%
81.0	2.733	0.312	2361.271	0.01%	99.93%
82.0	2.490	0.283	2361.554	0.01%	99.94%
83.0	2.240	0.257	2361.811	0.01%	99.95%
84.0	2.037	0.233	2362.044	0.01%	99.96%
85.0	1.807	0.210	2362.254	0.01%	99.97%
86.0	1.643	0.189	2362.442	0.01%	99.98%
87.0	1.445	0.169	2362.611	0.01%	99.98%
88.0	1.281	0.149	2362.761	0.01%	99.99%
89.0	1.104	0.131	2362.891	0.01%	100.00%
90.0	1.025	0.117	2363.008	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2071.69	81.43%	87.67%
0-40	2289.34	89.99%	96.88%
0-60	2344.40	92.15%	99.21%
0-90	2362.89	92.88%	100.00%
0-120	2362.89	92.88%	100.00%
0-180	2363.01	92.89%	100.00%
60-90	18.50	0.73%	0.78%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-25.95	1890.41	74.31%	80.00%

ZONAL LUMEN SUMMARY

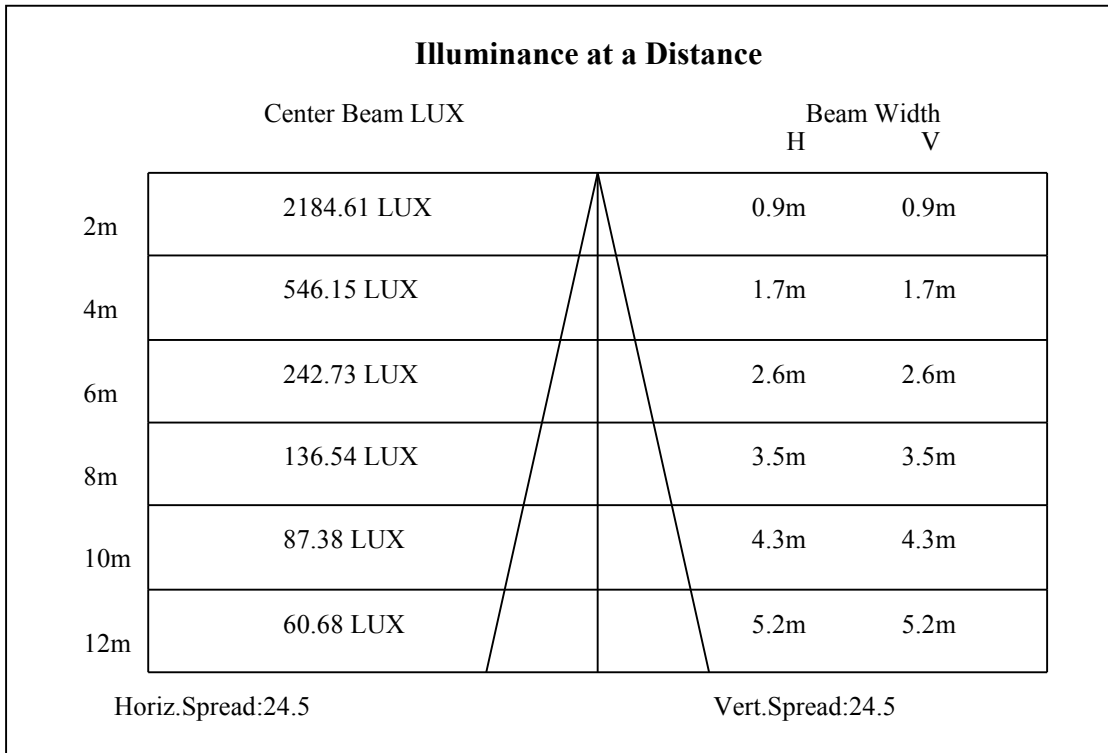
0-10	662.35
10-20	890.84
20-30	518.50
30-40	217.65
40-50	35.04
50-60	20.02
60-70	11.46
70-80	5.10
80-90	1.93
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

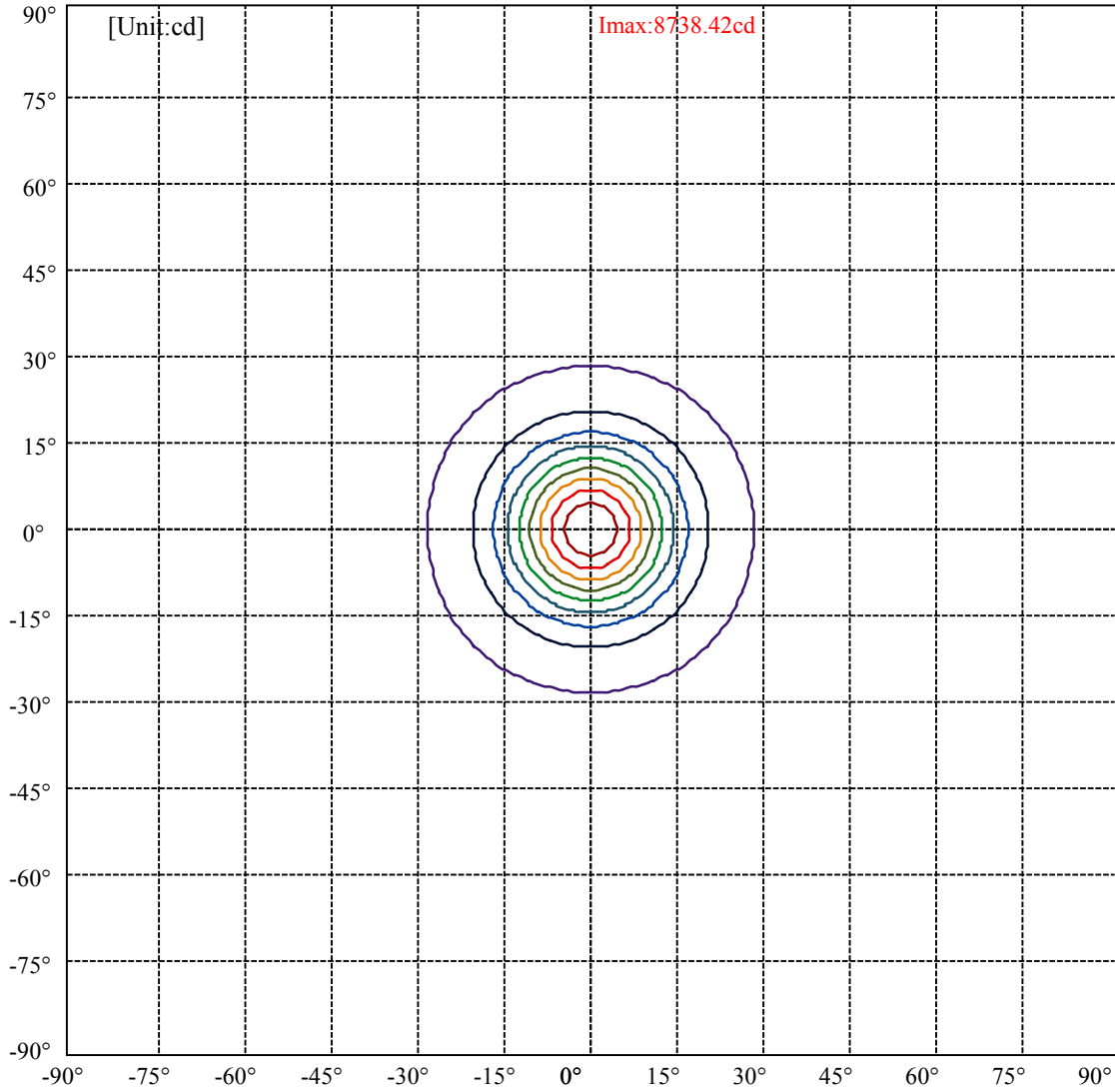


C0(Max): —————  
C0/C180: —————  
C90/C270: —————

Field angle(10%Imax):C0/180Left:28.0 Right:28.0  
:C90/270Left:28.0 Right:28.0

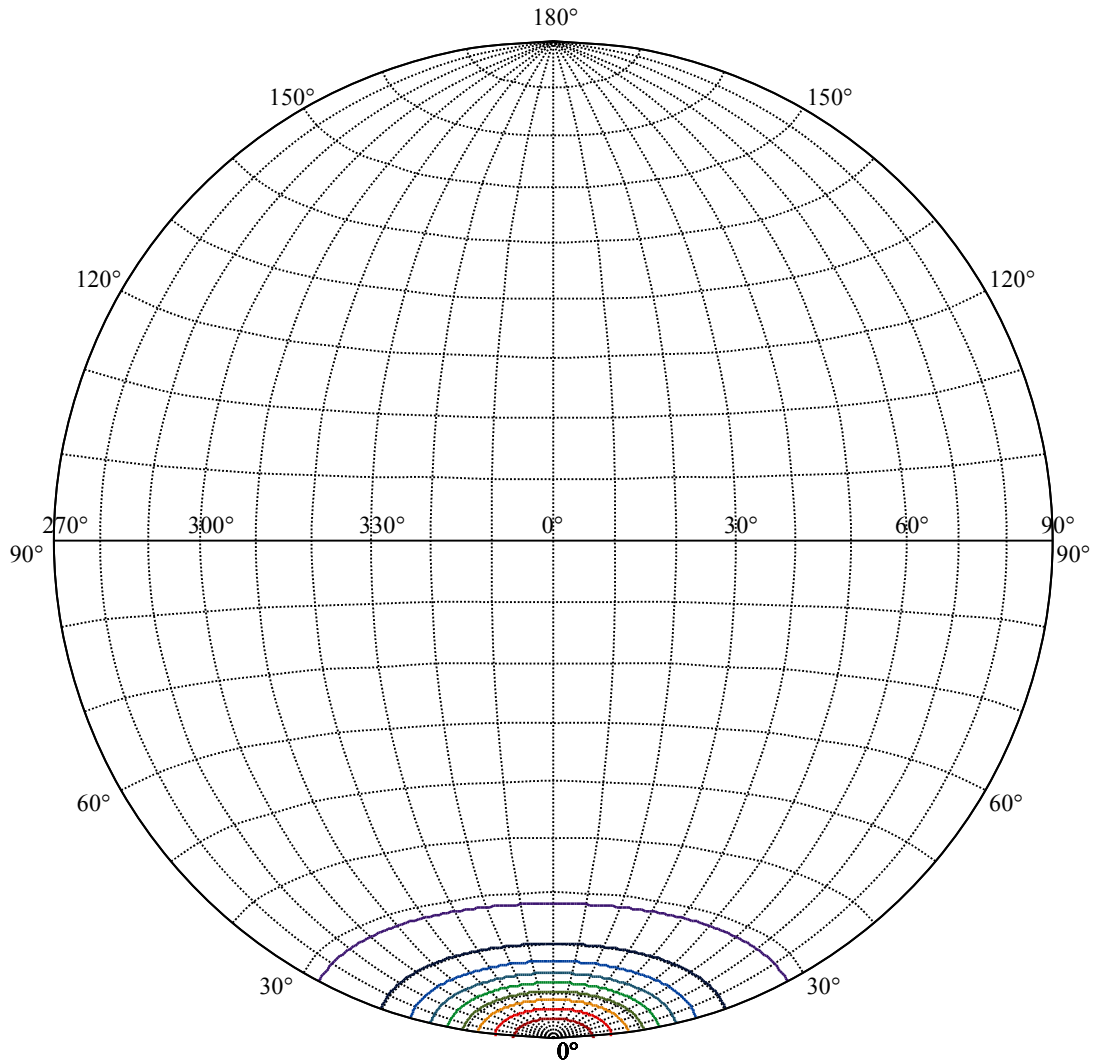
Beam Angle(50%Imax):C0/180Left:12.2 Right:12.2  
:C90/270Left:12.2 Right:12.2





(10%Imax) 873.842	—
(20%Imax) 1747.68	—
(30%Imax) 2621.53	—
(40%Imax) 3495.37	—
(50%Imax) 4369.21	—
(60%Imax) 5243.05	—
(70%Imax) 6116.9	—
(80%Imax) 6990.74	—
(90%Imax) 7864.58	—





House

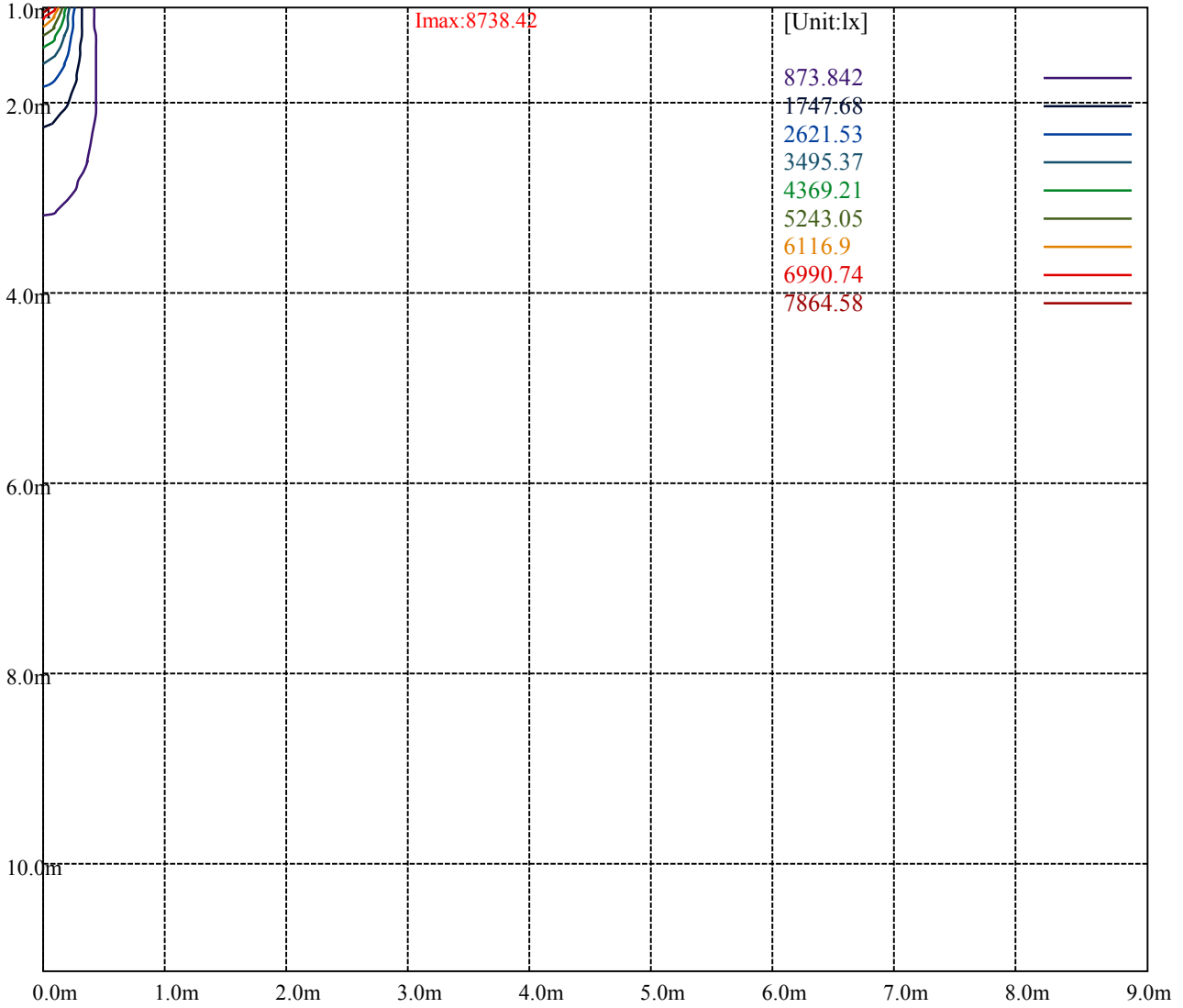
[Unit:cd]

Road

**Imax:8738.42**

(10%Imax) 873.842	—
(20%Imax) 1747.68	—
(30%Imax) 2621.53	—
(40%Imax) 3495.37	—
(50%Imax) 4369.21	—
(60%Imax) 5243.05	—
(70%Imax) 6116.9	—
(80%Imax) 6990.74	—
(90%Imax) 7864.58	—





Luminance Table

$\gamma$	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve



Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions	Viewed crosswise					Viewed endwise					
X	Y										
2H	2H										
	3H										
	4H										
	6H										
	8H										
	12H										
4H	2H										
	3H										
	4H										
	6H										
	8H										
	12H										
8H	4H										
	6H										
	8H										
	12H										
12H	4H										
	6H										
	8H										
Variation with the observer position at spacings:											
S = 1.0H											
S = 1.5H											
S = 2.0H											
Standard tables:											
Uncorrected UGR											