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Nata

Client:

LumCAT: 2-2756-L

Luminaire: 92.70.412.00

Report No: 2024815-B015

Ballast type: AC

Test No: 2024815-C015

LampCAT: BRIDGELUX V13B LES13

Lamp flux(lm): 2544.0

Number of Lamps: 1

Length(mm): 0

Phm Type: C

Voltage(V): 0.000

Current(A): 0.000

Power (W): 0.000

PF: 0.000

Width(mm): 0

Height(mm): 0

Photometric Results

Lumens(lm): 2332.82, Efficiency(%): 91.70% , Luminous Efficacy(lm/W): 0.00

Central intensity(cd): 5025.343, Maximum intensity(cd): 5025.343

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=37.2

[C90/270]Total=37.2

Field angle(10%Imax): [C0/180]Total=67.4

[C90/270]Total=67.4

Maximum s/h(1/2): C0_180=0.60 C90_270=0.60

Maximum s/h(1/4): C0_180=0.63 C90_270=0.63

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 91.70%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 99.367%

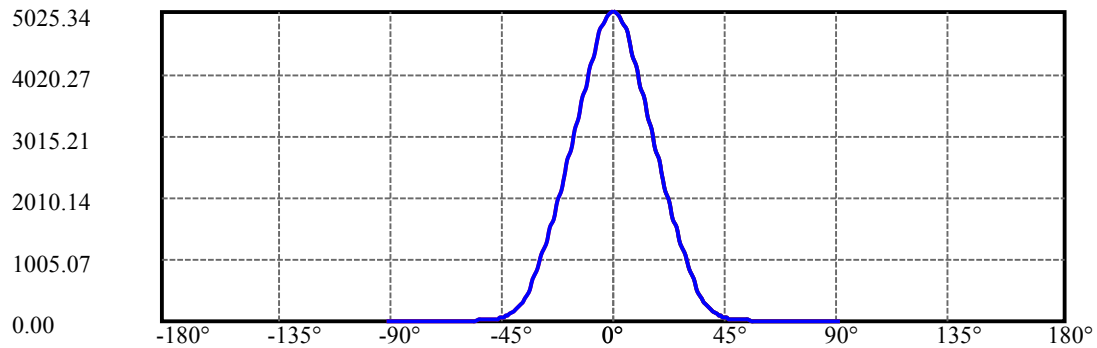
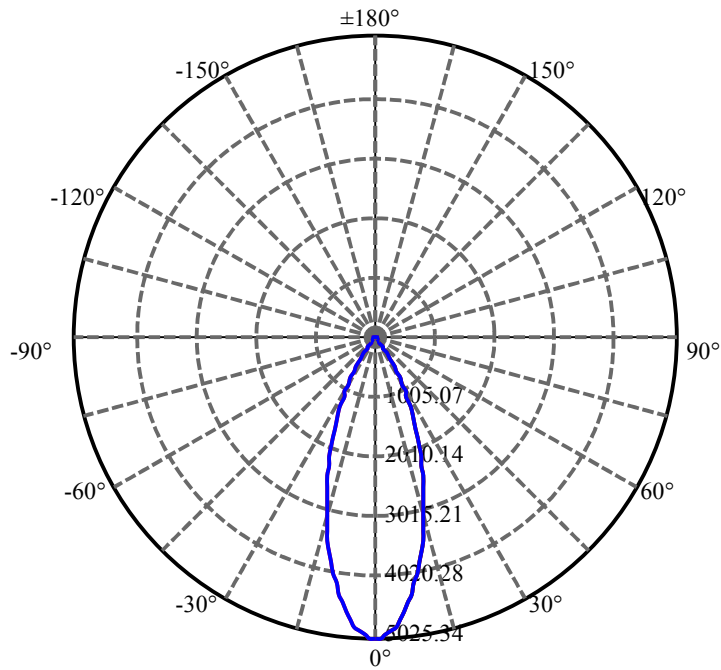
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5025.343	0.000	0	0.00%	0.00%
1.0	5012.531	4.803	4.803	0.19%	0.21%
2.0	4968.037	14.325	19.128	0.56%	0.82%
3.0	4907.846	23.620	42.748	0.93%	1.83%
4.0	4830.888	32.599	75.347	1.28%	3.23%
5.0	4735.829	41.156	116.502	1.62%	4.99%
6.0	4609.843	49.114	165.616	1.93%	7.10%
7.0	4465.887	56.333	221.949	2.21%	9.51%
8.0	4319.915	62.878	284.827	2.47%	12.21%
9.0	4147.398	68.623	353.45	2.70%	15.15%
10.0	3989.165	73.633	427.083	2.89%	18.31%
11.0	3823.331	78.063	505.146	3.07%	21.65%
12.0	3654.513	81.744	586.89	3.21%	25.16%
13.0	3489.309	84.779	671.669	3.33%	28.79%
14.0	3319.874	87.157	758.826	3.43%	32.53%
15.0	3132.173	88.577	847.402	3.48%	36.33%
16.0	2948.730	89.102	936.504	3.50%	40.14%
17.0	2785.208	89.293	1025.797	3.51%	43.97%
18.0	2608.651	88.933	1114.73	3.50%	47.78%
19.0	2437.678	87.796	1202.526	3.45%	51.55%
20.0	2273.729	86.232	1288.758	3.39%	55.24%
21.0	2115.627	84.285	1373.042	3.31%	58.86%
22.0	1960.108	81.904	1454.946	3.22%	62.37%
23.0	1813.781	79.186	1534.132	3.11%	65.76%
24.0	1669.766	76.163	1610.295	2.99%	69.03%
25.0	1531.652	72.793	1683.089	2.86%	72.15%
26.0	1365.876	68.396	1751.485	2.69%	75.08%
27.0	1254.358	64.105	1815.59	2.52%	77.83%
28.0	1124.470	60.227	1875.816	2.37%	80.41%
29.0	1035.659	56.515	1932.332	2.22%	82.83%
30.0	914.239	52.647	1984.978	2.07%	85.09%
31.0	799.876	47.701	2032.68	1.88%	87.13%
32.0	675.586	42.270	2074.95	1.66%	88.95%
33.0	574.180	36.819	2111.769	1.45%	90.52%
34.0	474.206	31.727	2143.496	1.25%	91.88%
35.0	386.466	26.729	2170.225	1.05%	93.03%
36.0	325.290	22.662	2192.887	0.89%	94.00%
37.0	275.099	19.581	2212.469	0.77%	94.84%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	228.621	16.813	2229.282	0.66%	95.56%
39.0	190.112	14.292	2243.575	0.56%	96.17%
40.0	149.186	11.833	2255.408	0.47%	96.68%
41.0	118.660	9.538	2264.946	0.37%	97.09%
42.0	96.419	7.814	2272.76	0.31%	97.43%
43.0	78.673	6.486	2279.246	0.25%	97.70%
44.0	64.008	5.385	2284.631	0.21%	97.93%
45.0	52.405	4.474	2289.105	0.18%	98.13%
46.0	44.126	3.775	2292.88	0.15%	98.29%
47.0	37.195	3.234	2296.115	0.13%	98.43%
48.0	32.109	2.802	2298.916	0.11%	98.55%
49.0	28.036	2.470	2301.386	0.10%	98.65%
50.0	25.059	2.214	2303.6	0.09%	98.75%
51.0	22.365	2.006	2305.606	0.08%	98.83%
52.0	20.131	1.824	2307.43	0.07%	98.91%
53.0	18.449	1.678	2309.108	0.07%	98.98%
54.0	16.761	1.552	2310.66	0.06%	99.05%
55.0	15.453	1.438	2312.098	0.06%	99.11%
56.0	14.277	1.343	2313.442	0.05%	99.17%
57.0	13.226	1.258	2314.699	0.05%	99.22%
58.0	12.313	1.181	2315.88	0.05%	99.27%
59.0	11.531	1.115	2316.995	0.04%	99.32%
60.0	10.782	1.054	2318.049	0.04%	99.37%
61.0	10.131	0.998	2319.047	0.04%	99.41%
62.0	9.534	0.948	2319.995	0.04%	99.45%
63.0	8.988	0.901	2320.895	0.04%	99.49%
64.0	8.502	0.858	2321.754	0.03%	99.53%
65.0	8.035	0.818	2322.572	0.03%	99.56%
66.0	7.654	0.783	2323.355	0.03%	99.59%
67.0	7.240	0.749	2324.104	0.03%	99.63%
68.0	6.866	0.715	2324.818	0.03%	99.66%
69.0	6.511	0.682	2325.501	0.03%	99.69%
70.0	6.209	0.653	2326.154	0.03%	99.71%
71.0	5.867	0.624	2326.778	0.02%	99.74%
72.0	5.506	0.591	2327.37	0.02%	99.77%
73.0	5.204	0.560	2327.93	0.02%	99.79%
74.0	4.915	0.532	2328.462	0.02%	99.81%
75.0	4.573	0.501	2328.963	0.02%	99.83%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	4.264	0.469	2329.432	0.02%	99.85%
77.0	3.962	0.439	2329.871	0.02%	99.87%
78.0	3.633	0.407	2330.277	0.02%	99.89%
79.0	3.331	0.374	2330.651	0.01%	99.91%
80.0	2.996	0.341	2330.992	0.01%	99.92%
81.0	2.687	0.307	2331.3	0.01%	99.93%
82.0	2.365	0.274	2331.574	0.01%	99.95%
83.0	2.070	0.241	2331.815	0.01%	99.96%
84.0	1.800	0.211	2332.026	0.01%	99.97%
85.0	1.577	0.184	2332.21	0.01%	99.97%
86.0	1.367	0.161	2332.371	0.01%	99.98%
87.0	1.189	0.140	2332.511	0.01%	99.99%
88.0	0.999	0.120	2332.631	0.00%	99.99%
89.0	0.861	0.102	2332.733	0.00%	100.00%
90.0	0.756	0.089	2332.821	0.00%	100.00%

ZONAL LUMEN SUMMARY			
Zone	Lumens	%Lamp	%Fixt
0-30	1984.98	78.03%	85.09%
0-40	2255.41	88.66%	96.68%
0-60	2318.05	91.12%	99.37%
0-90	2332.73	91.70%	100.00%
0-120	2332.73	91.70%	100.00%
0-180	2332.82	91.70%	100.00%
60-90	14.68	0.58%	0.63%
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%
0-27.84	1866.26	73.36%	80.00%

ZONAL LUMEN SUMMARY	
0-10	427.08
10-20	861.67
20-30	696.22
30-40	270.43
40-50	48.19
50-60	14.45
60-70	8.11
70-80	4.84
80-90	1.74
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: —————

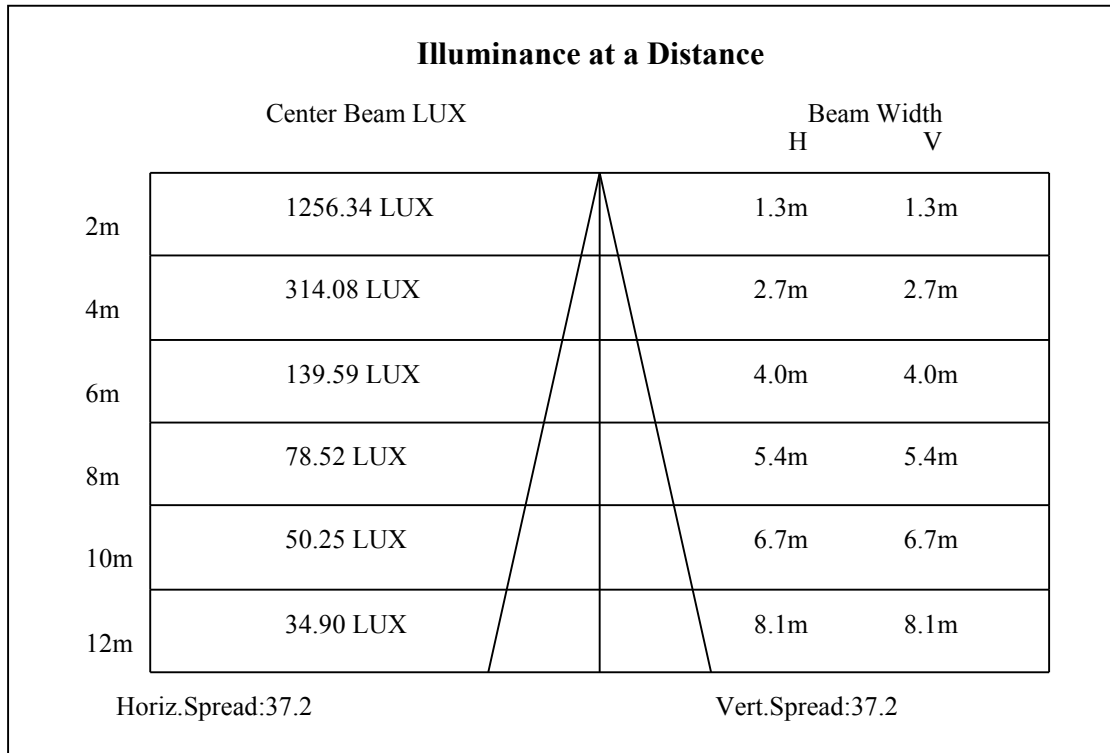
C90/C270: —————

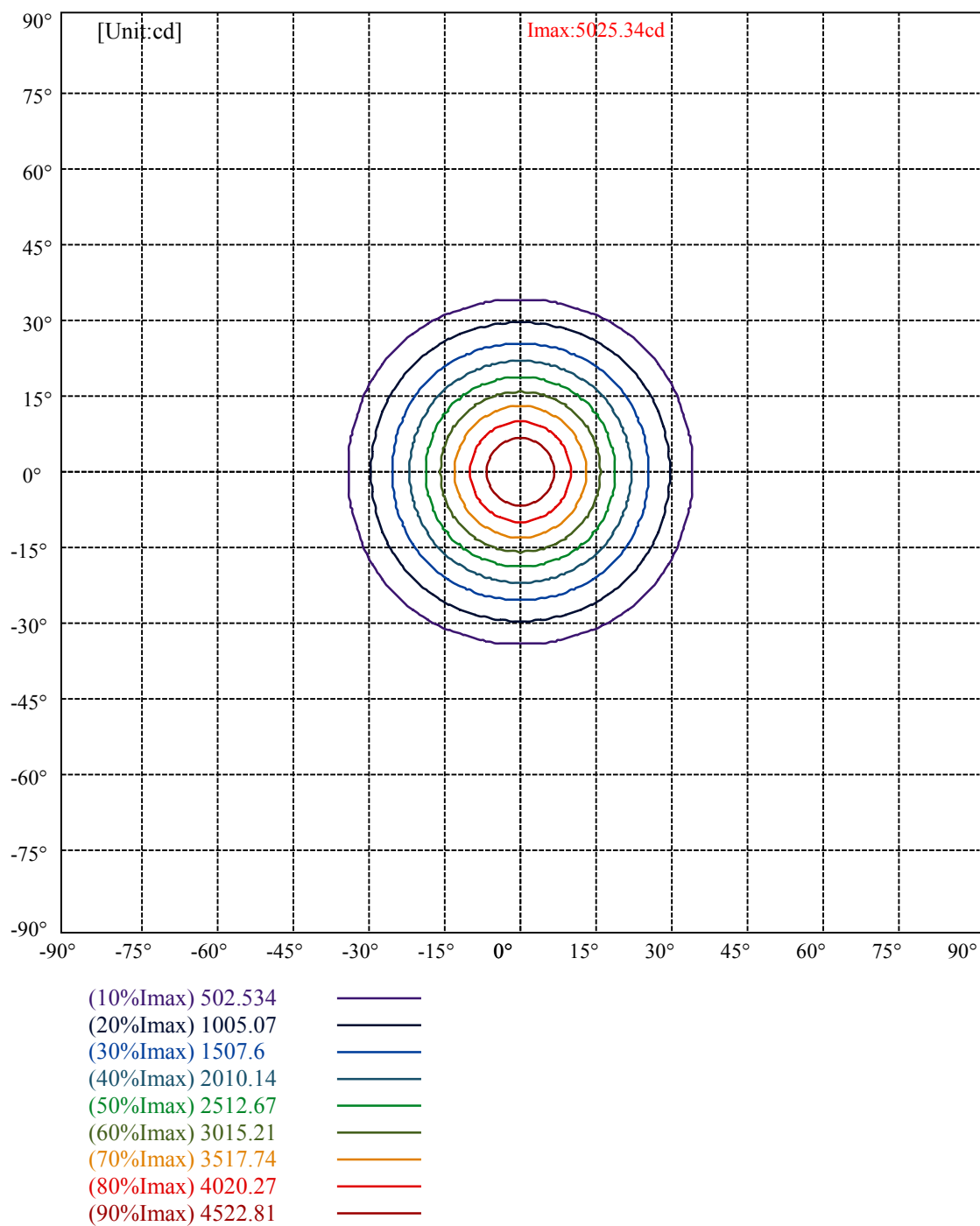
Field angle(10%Imax):C0/180Left:33.7 Right:33.7

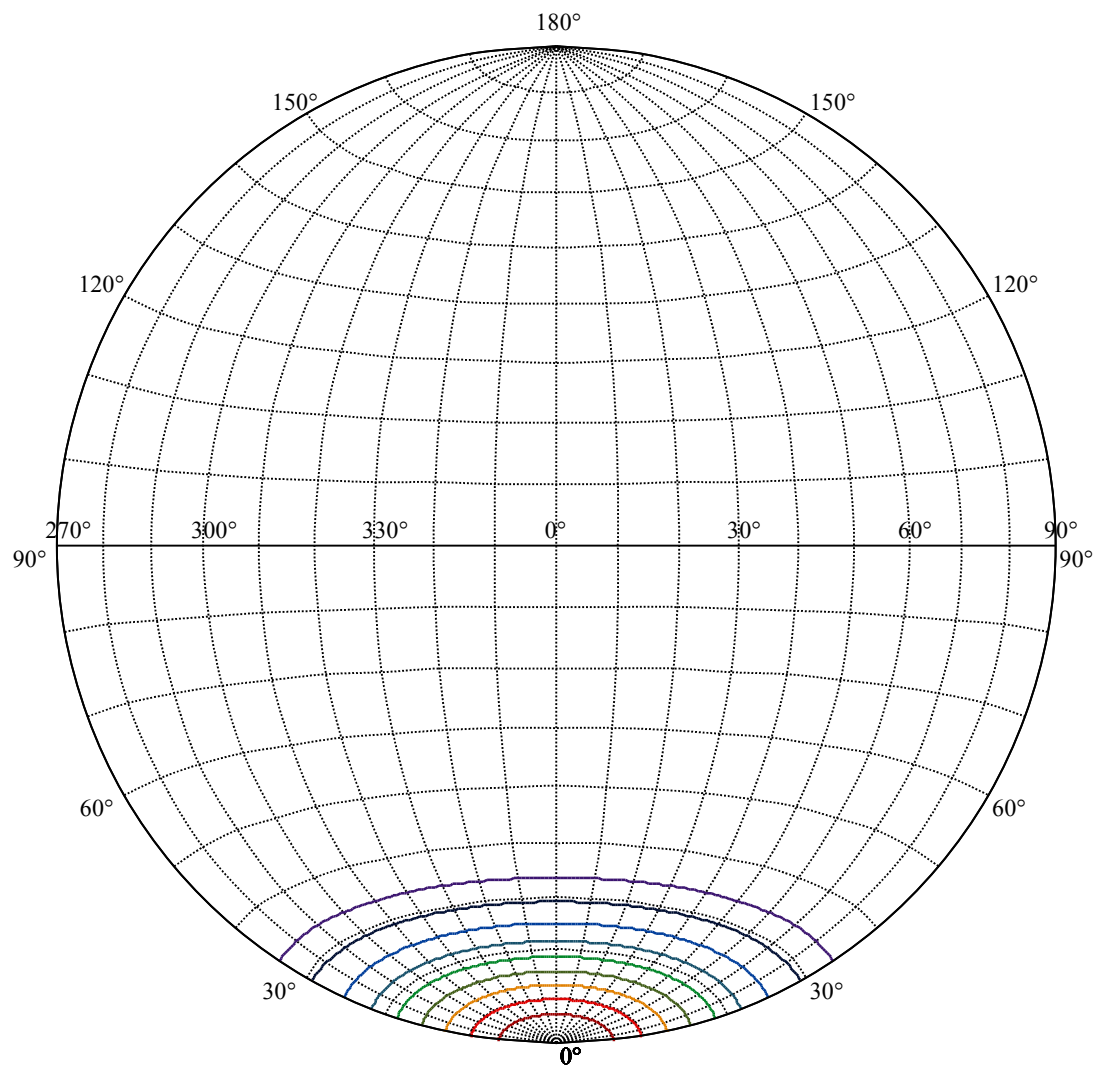
:C90/270Left:33.7 Right:33.7

Beam Angle(50%Imax):C0/180Left:18.6 Right:18.6

:C90/270Left:18.6 Right:18.6





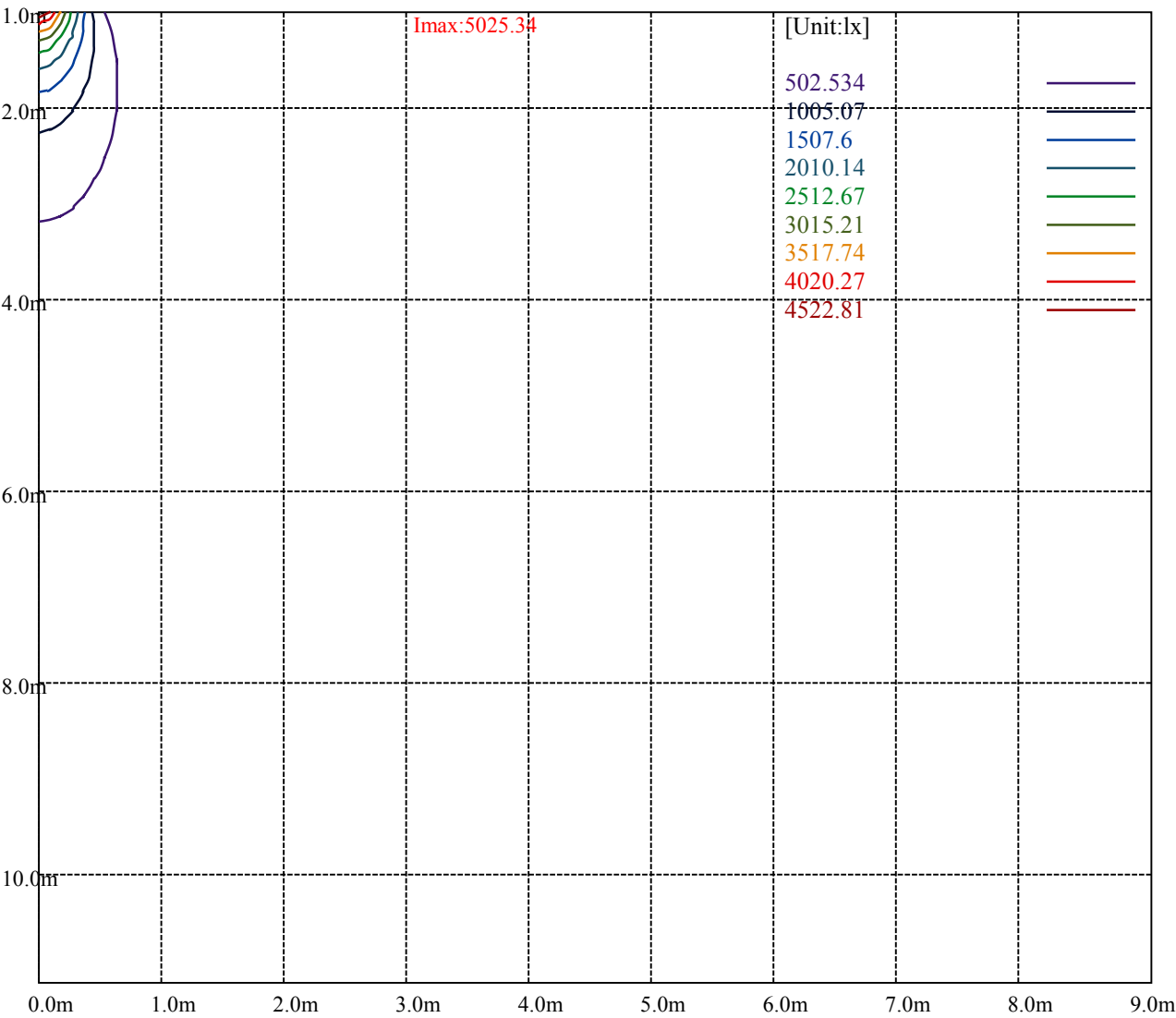


House

[Unit:cd]

Road

I _{max} :5025.34	
(10%I _{max}) 502.534	—
(20%I _{max}) 1005.07	—
(30%I _{max}) 1507.6	—
(40%I _{max}) 2010.14	—
(50%I _{max}) 2512.67	—
(60%I _{max}) 3015.21	—
(70%I _{max}) 3517.74	—
(80%I _{max}) 4020.27	—
(90%I _{max}) 4522.81	—



Luminance Table

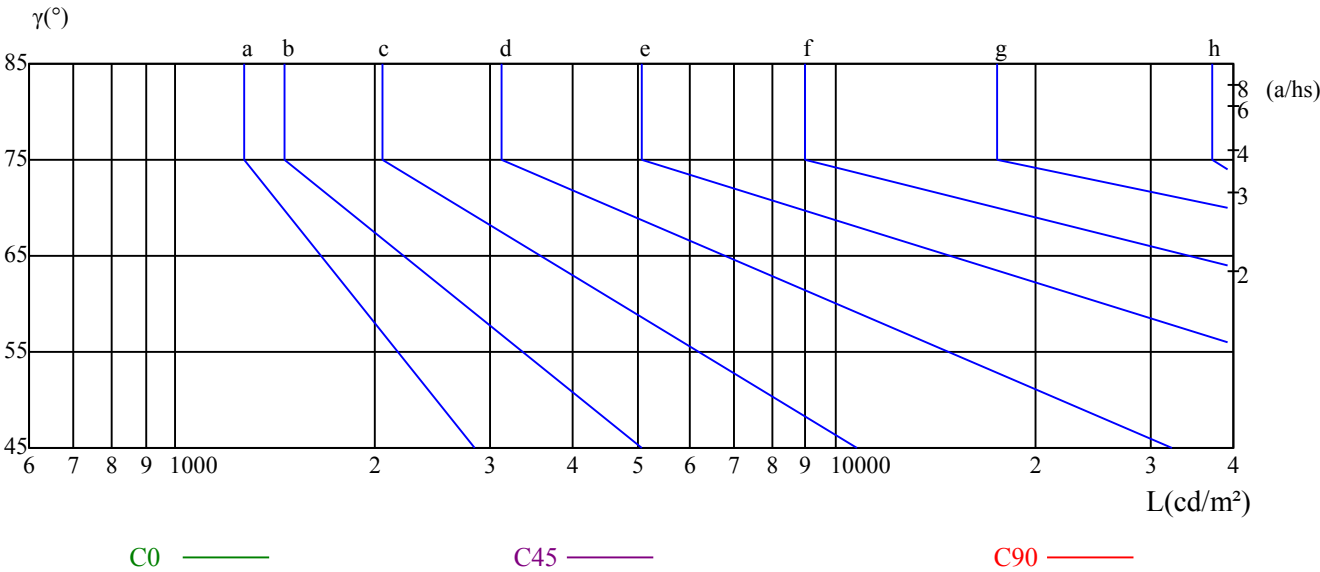
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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																		
4H	12H																		
	2H																		
	3H																		
	4H																		
	6H																		
8H	8H																		
	12H																		
	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																			