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Nata

LumCAT: 6-0845-M2
Luminaire: LM07126080EM
Report No: 220627-B015
Test No: 220627-C015
LampCAT: LUMILEDS 5050
Lamp flux(lm): 2220.5
Number of Lamps: 1
Length(mm): 43
Phm Type: C

Voltage(V): 40.0300
Current(A): 0.3500
Power (W): 14.0100
PF: 0.0000
Ballast type: DC
Width(mm): 43
Height(mm): 0

Photometric Results

Lumens(lm): 1847.21
Efficiency(%): 83.19%
Lumens(lm)/Power(W): 131.85
Central intensity(cd): 1221.947
Maximum intensity(cd): 1244.653
Angle of maximum intensity: C=67.5 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=74.9
 [C90/270]Total=80.7
Field angle(10%Imax): [C0/180]Total=96.8
 [C90/270]Total=102.6
Maximum s/h(1/2): C0_180=1.07 C90_270=1.14
Maximum s/h(1/4): C0_180=1.06 C90_270=1.12
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 83.19%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.468%

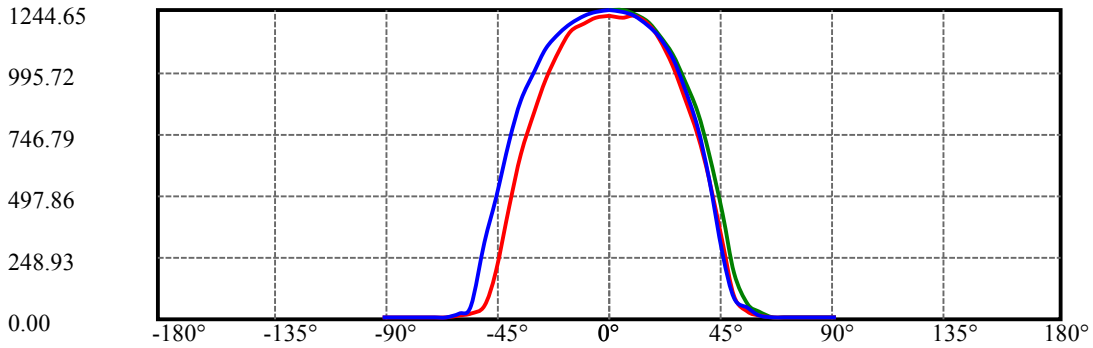
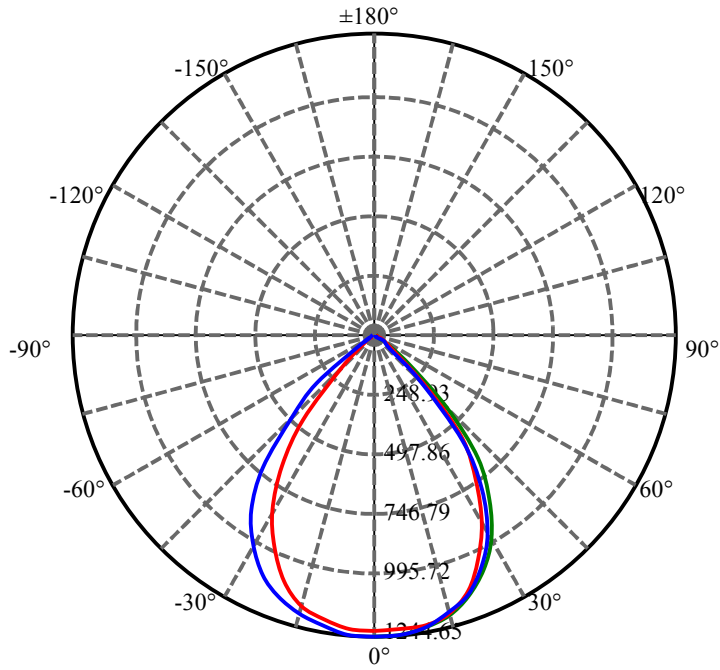
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1235.391	0.000	0	.000%	.000%
5.0	1232.740	29.506	29.506	1.329%	1.597%
10.0	1220.378	87.756	117.262	3.952%	6.348%
15.0	1188.287	142.880	260.142	6.435%	14.083%
20.0	1133.972	191.387	451.529	8.619%	24.444%
25.0	1044.040	228.433	679.962	10.287%	36.810%
30.0	932.089	250.081	930.043	11.262%	50.349%
35.0	790.658	253.687	1183.729	11.425%	64.082%
40.0	629.870	237.004	1420.734	10.673%	76.913%
45.0	409.020	192.359	1613.093	8.663%	87.326%
50.0	203.115	123.691	1736.784	5.570%	94.022%
55.0	73.085	60.055	1796.839	2.705%	97.273%
60.0	22.404	22.072	1818.911	.994%	98.468%
65.0	9.915	7.857	1826.767	.354%	98.894%
70.0	8.929	4.772	1831.539	.215%	99.152%
75.0	8.220	4.482	1836.021	.202%	99.394%
80.0	7.342	4.164	1840.185	.188%	99.620%
85.0	6.151	3.666	1843.852	.165%	99.818%
90.0	6.102	3.355	1847.207	.151%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	930.04	41.88%	50.35%
0-40	1420.73	63.98%	76.91%
0-60	1818.91	81.91%	98.47%
0-90	1843.85	83.04%	99.82%
0-120	1843.85	83.04%	99.82%
0-180	1847.21	83.19%	100.00%
60-90	47.01	2.12%	2.55%
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%
0-41.48	1477.77	66.55%	80.00%

ZONAL LUMEN SUMMARY

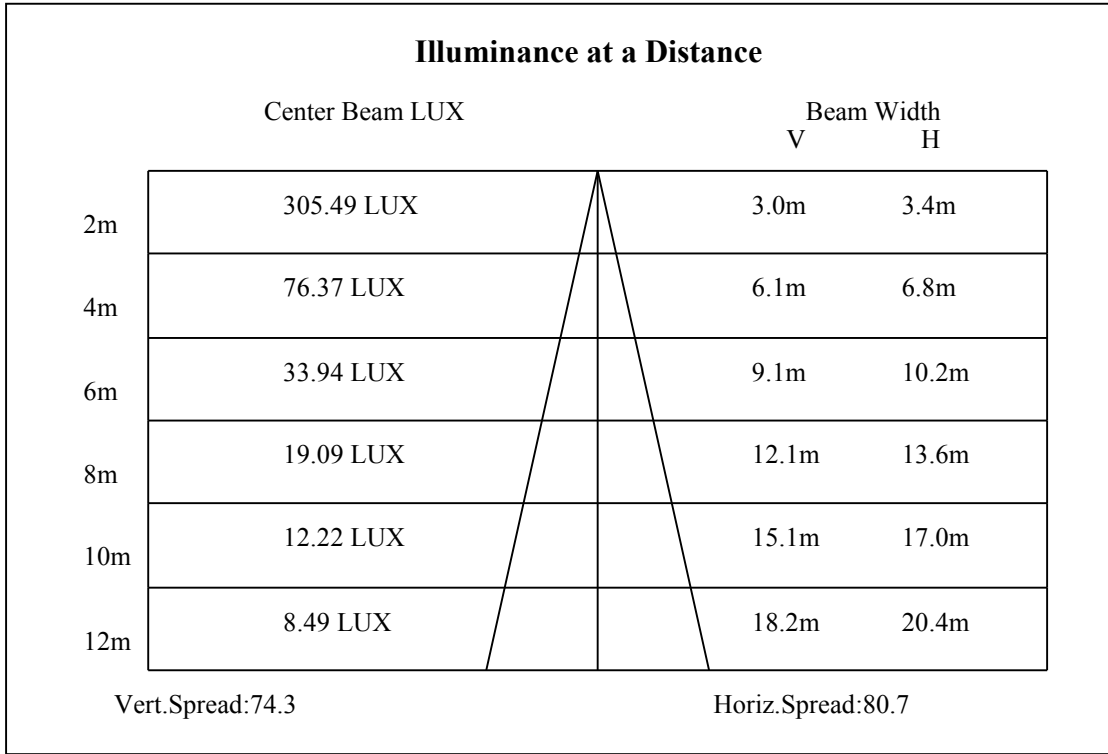
0-10	117.26
10-20	334.27
20-30	478.51
30-40	490.69
40-50	316.05
50-60	82.13
60-70	12.63
70-80	8.65
80-90	3.67
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

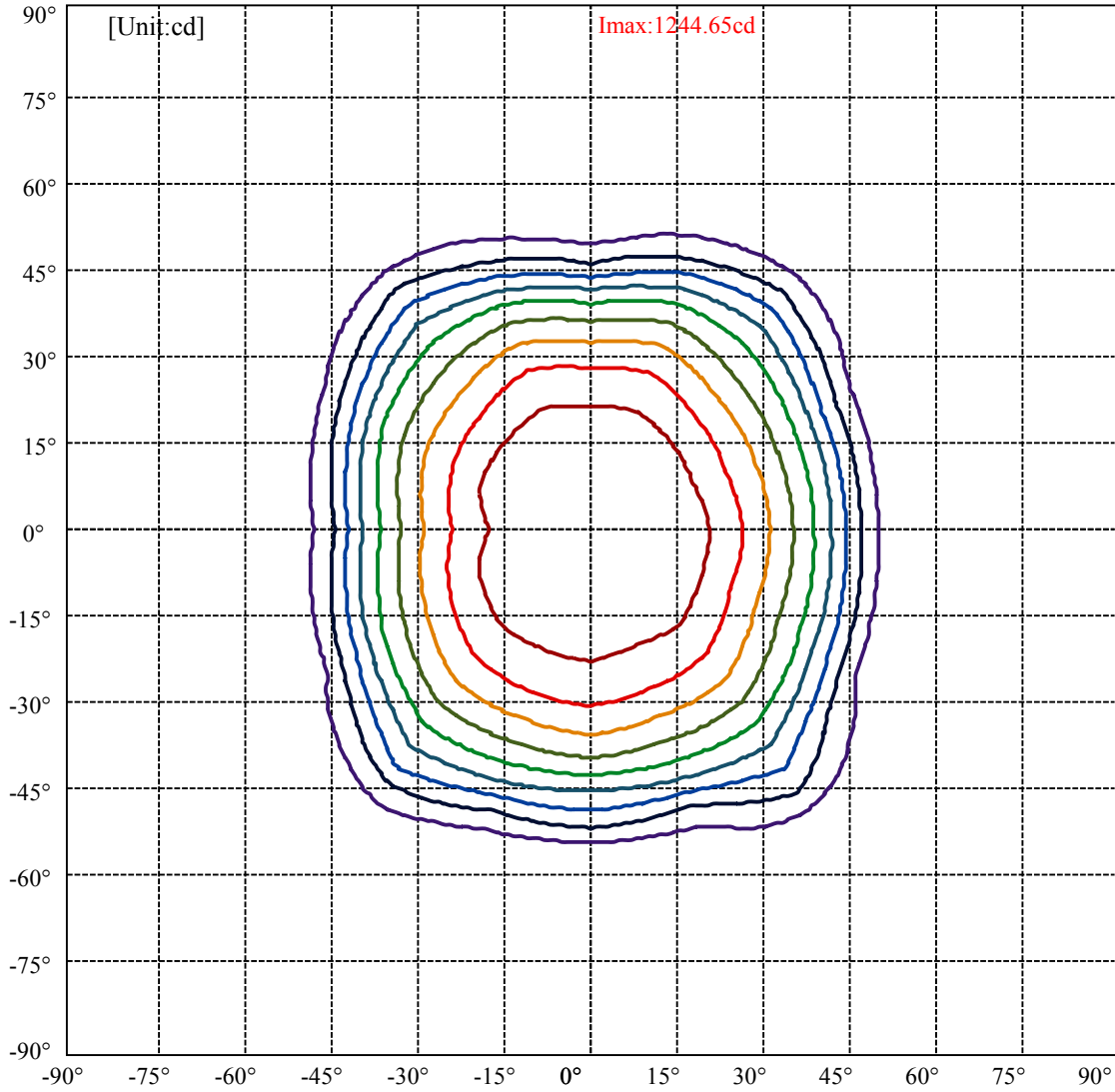


C67.5(Max): —
C0/C180: —
C90/C270: —

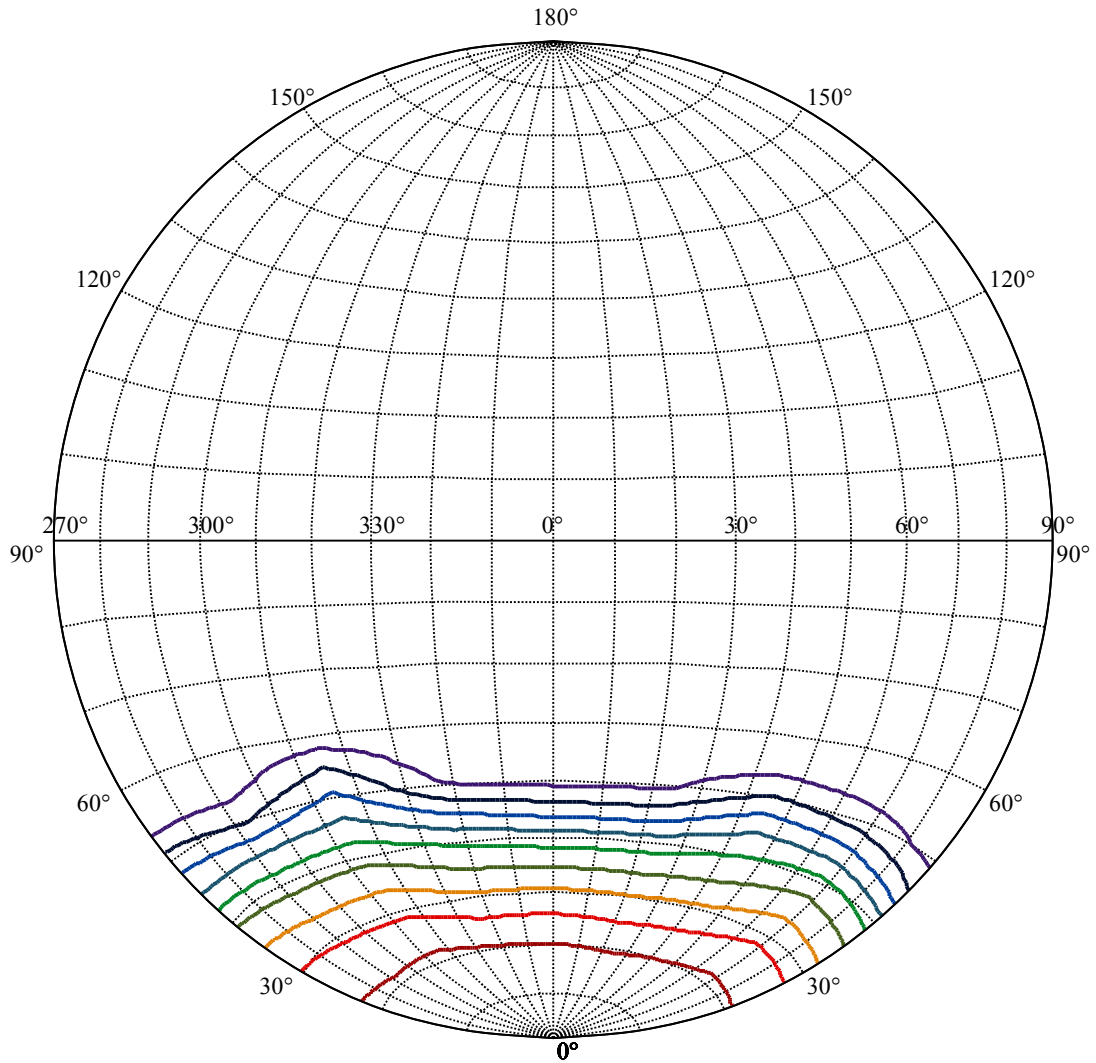
Field angle(10%Imax):C0/180Left:47.5 Right:49.3
:C90/270Left:53.7 Right:48.9

Beam Angle(50%Imax):C0/180Left:36.3 Right:38.6
:C90/270Left:42.1 Right:38.6





(10%I _{max}) 124.465	—
(20%I _{max}) 248.931	—
(30%I _{max}) 373.396	—
(40%I _{max}) 497.861	—
(50%I _{max}) 622.326	—
(60%I _{max}) 746.792	—
(70%I _{max}) 871.257	—
(80%I _{max}) 995.722	—
(90%I _{max}) 1120.19	—



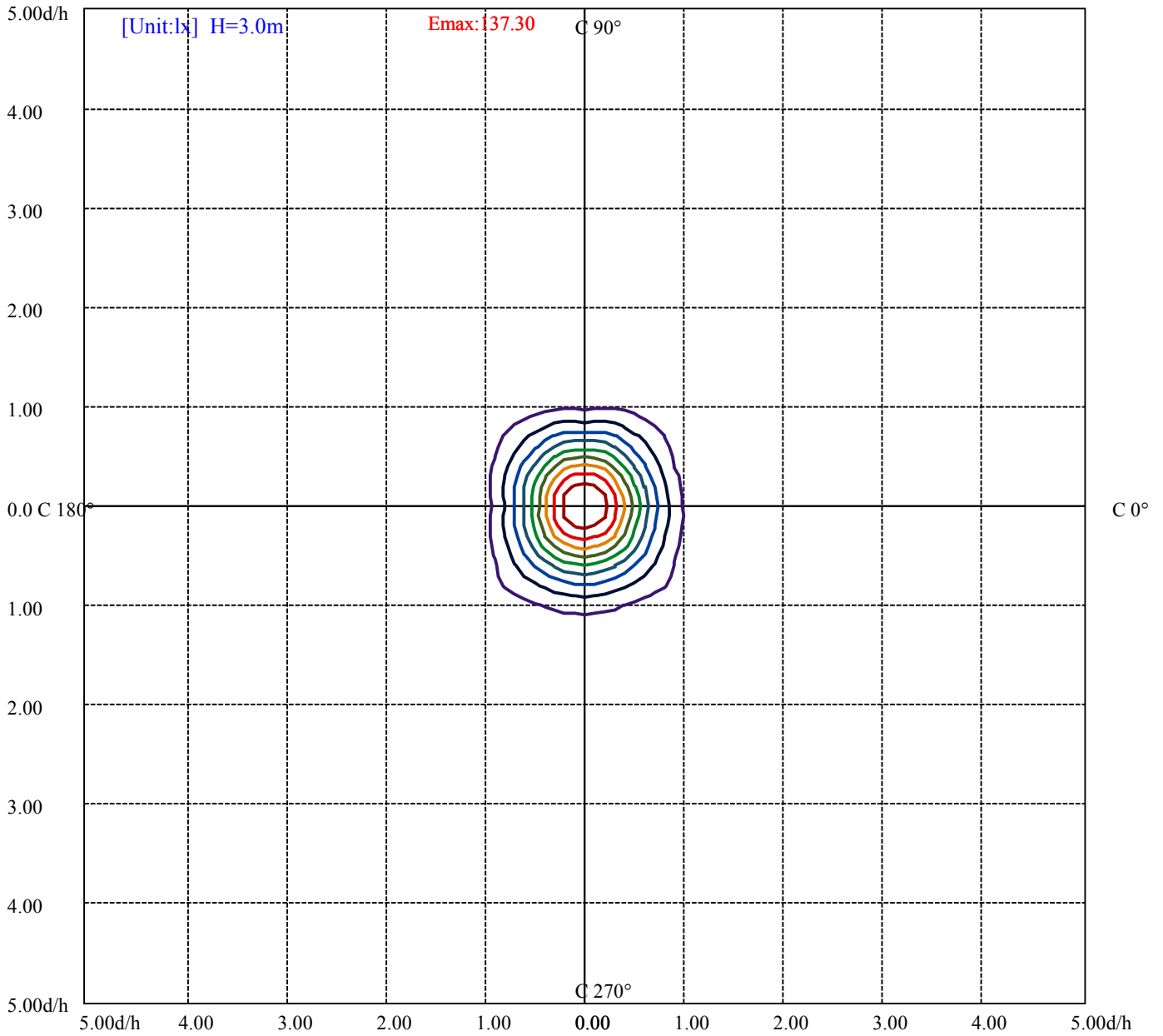
House

[Unit:cd]

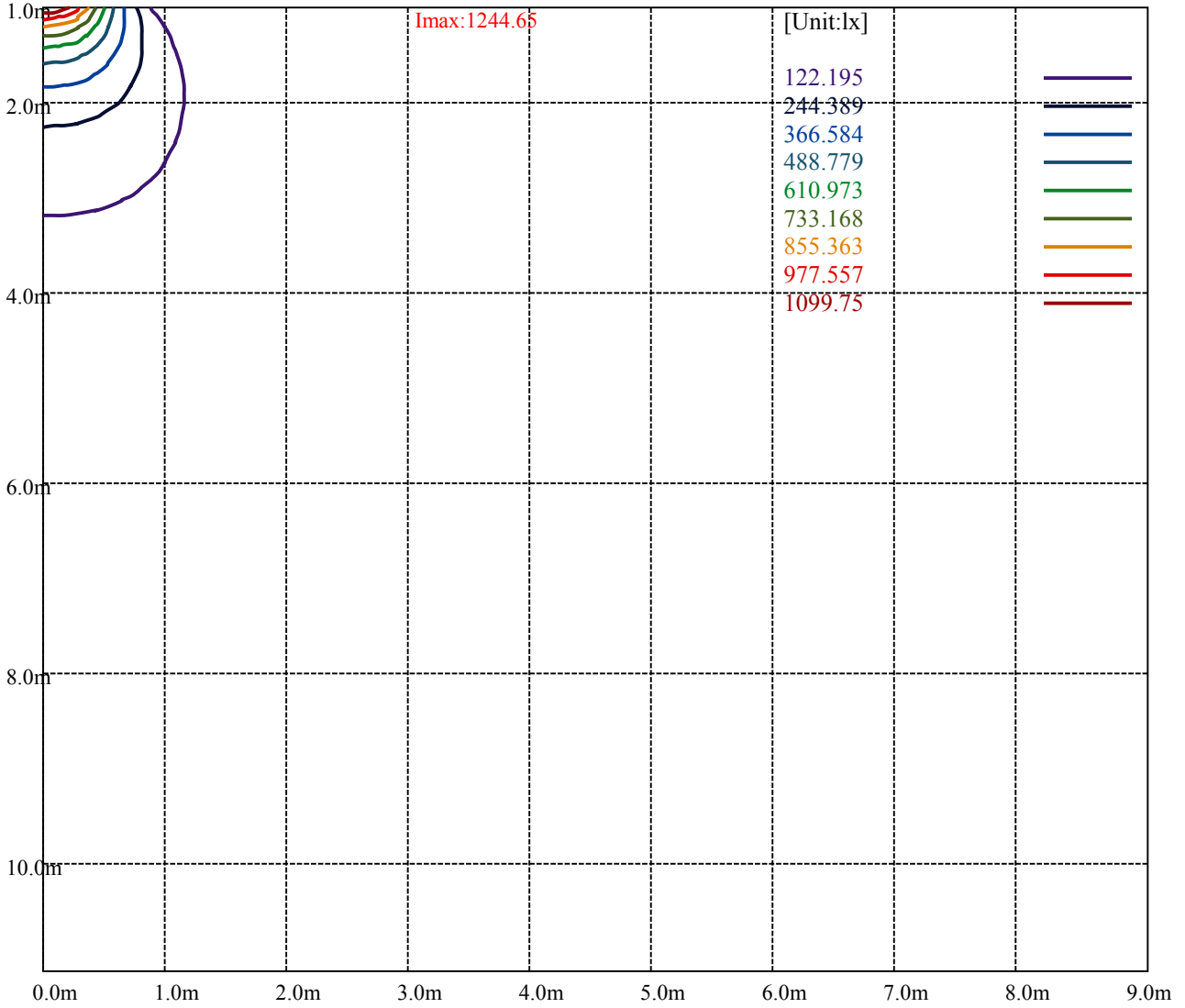
Road

Imax:1244.65

(10%Imax) 124.465	—
(20%Imax) 248.931	—
(30%Imax) 373.396	—
(40%Imax) 497.861	—
(50%Imax) 622.326	—
(60%Imax) 746.792	—
(70%Imax) 871.257	—
(80%Imax) 995.722	—
(90%Imax) 1120.19	—



- (10%Emax) 13.72989
- (20%Emax) 27.45978
- (30%Emax) 41.18967
- (40%Emax) 54.91956
- (50%Emax) 68.64956
- (60%Emax) 82.37944
- (70%Emax) 96.10934
- (80%Emax) 109.8392
- (90%Emax) 123.5689



Luminance Table

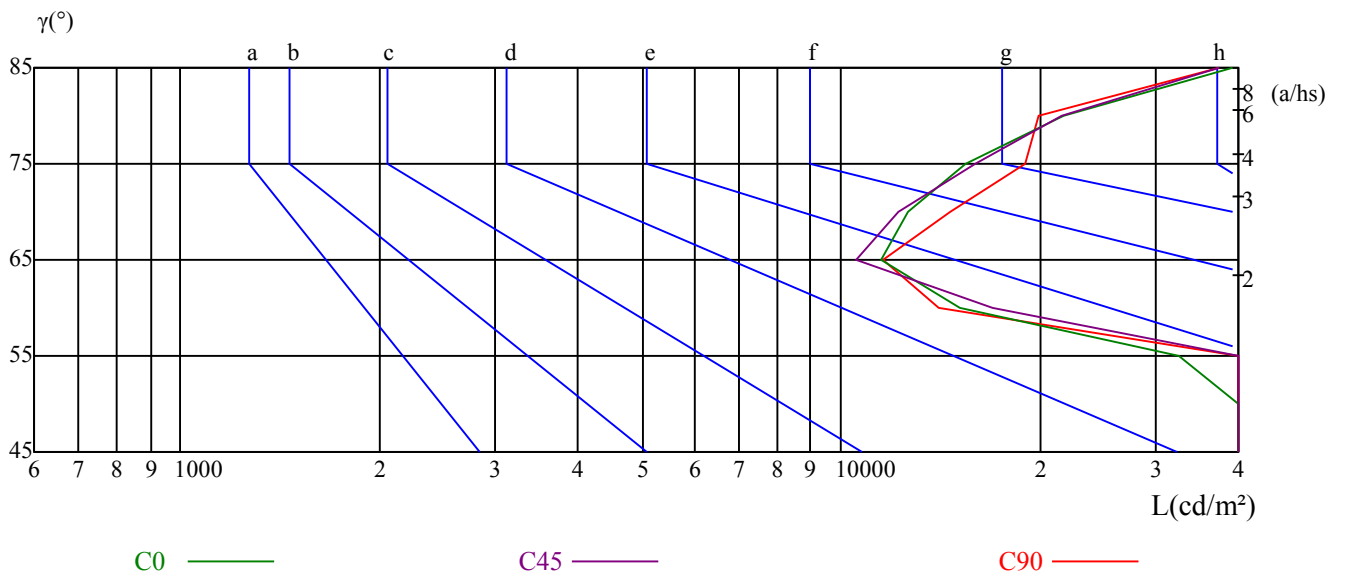
γ	45	50	55	60	65	70	75	80	85
C0	235823	77776	32453	15124	11470	12661	15483	21774	39304
C45	364018	226138	71385	16934	10552	12189	15982	21588	37450
C90	203740	71491	45186	14090	11547	14645	18979	19913	37450

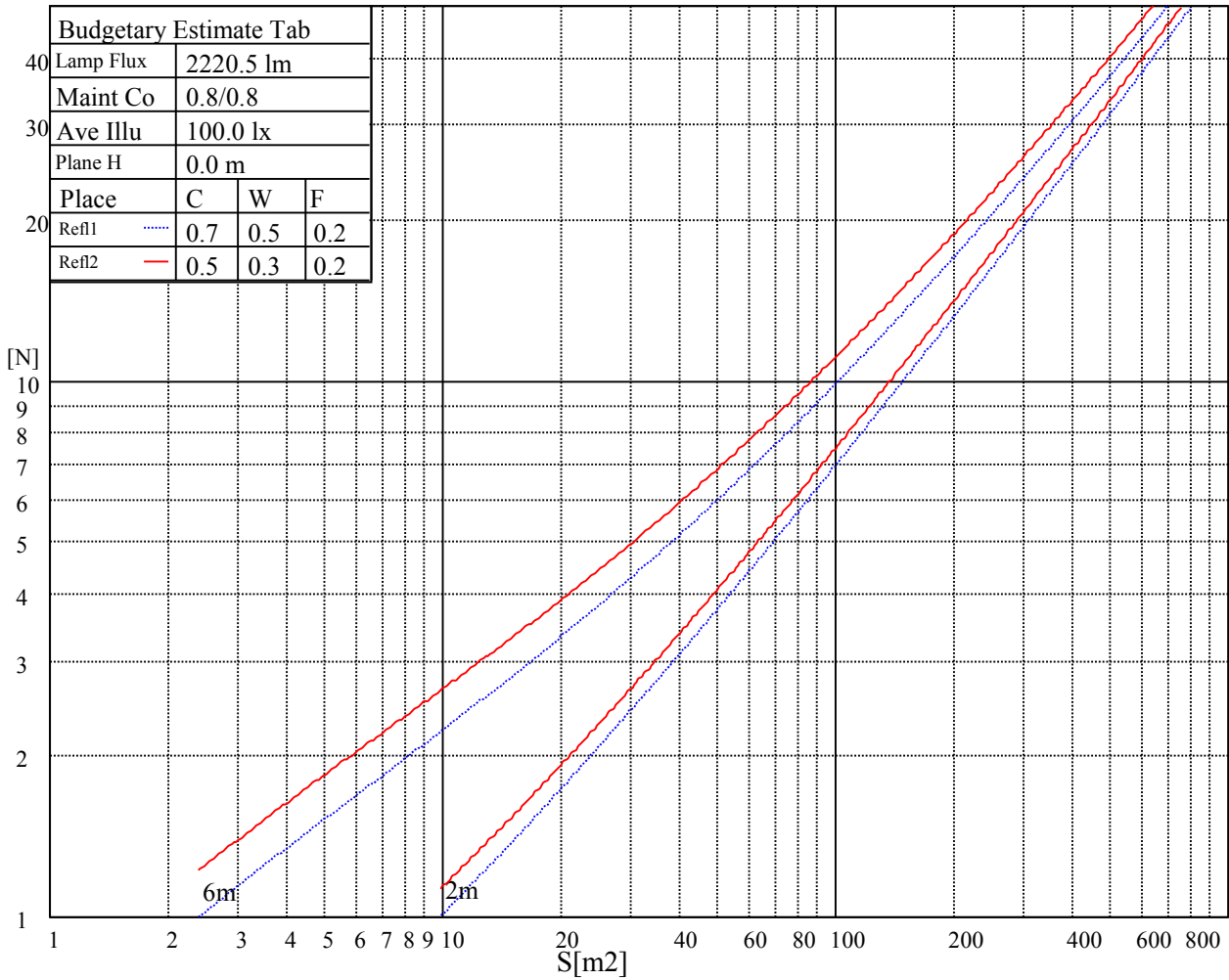
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
12426	11547	13114	17605	17793	16419	38933	37635	37728

Glare Table

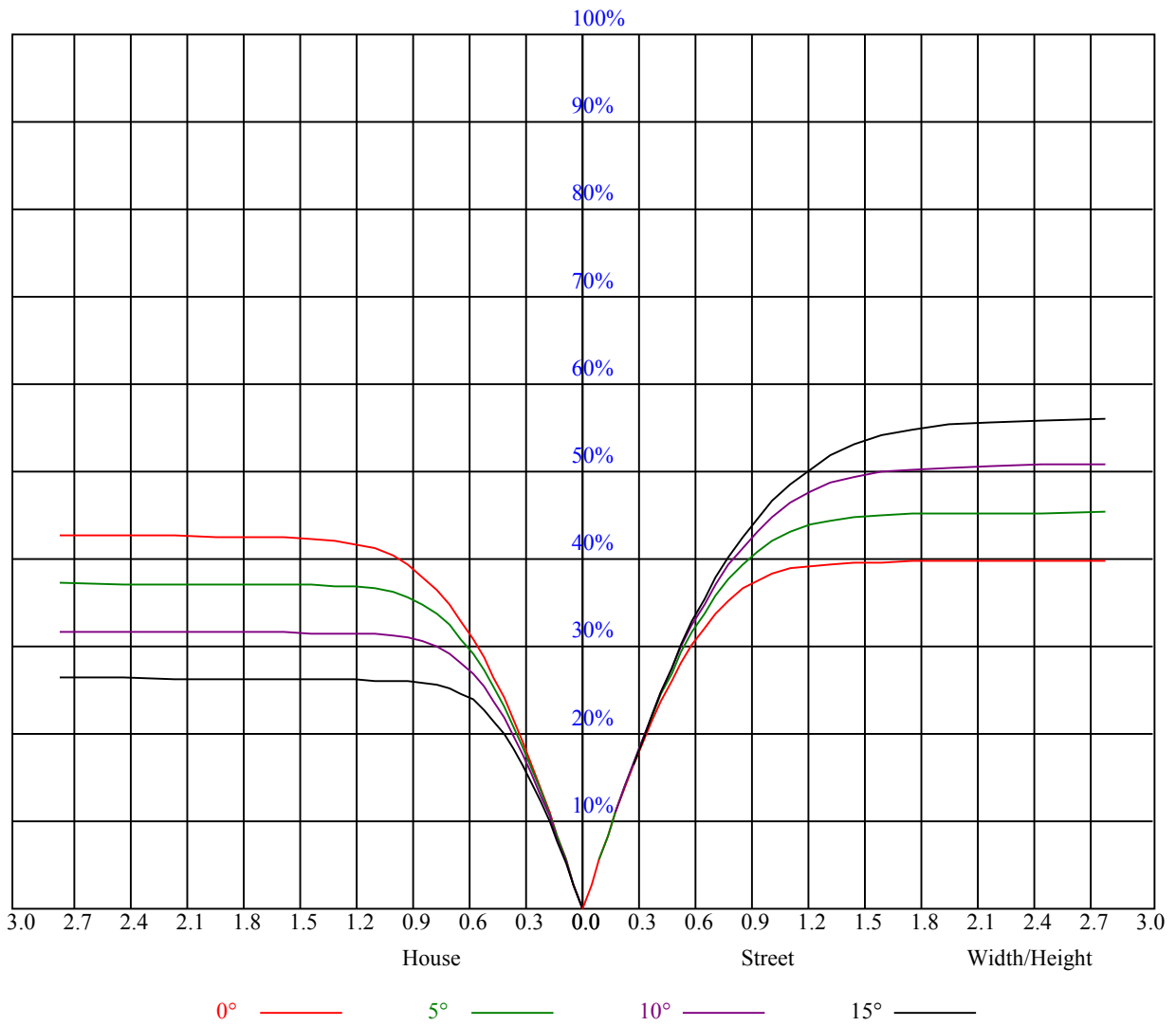
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve





RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFICIENTS OF UTILIZATION RHOFC=20 CU															
0	0.99	0.99	0.99	0.97	0.97	0.97	0.92	0.92	0.92	0.88	0.88	0.88	0.85	0.85	0.85	0.83
1	0.91	0.88	0.86	0.89	0.87	0.85	0.86	0.84	0.82	0.83	0.81	0.80	0.80	0.79	0.77	0.76
2	0.83	0.79	0.76	0.82	0.78	0.75	0.79	0.76	0.73	0.76	0.74	0.72	0.74	0.72	0.70	0.69
3	0.76	0.71	0.67	0.75	0.71	0.67	0.73	0.69	0.66	0.71	0.67	0.65	0.69	0.66	0.64	0.62
4	0.70	0.65	0.60	0.69	0.64	0.60	0.67	0.63	0.59	0.65	0.62	0.59	0.64	0.60	0.58	0.56
5	0.64	0.59	0.54	0.63	0.58	0.54	0.62	0.57	0.54	0.60	0.56	0.53	0.59	0.56	0.53	0.51
6	0.59	0.54	0.49	0.59	0.53	0.49	0.57	0.52	0.49	0.56	0.52	0.48	0.55	0.51	0.48	0.47
7	0.55	0.49	0.45	0.54	0.49	0.45	0.53	0.48	0.45	0.52	0.48	0.44	0.51	0.47	0.44	0.43
8	0.51	0.45	0.41	0.50	0.45	0.41	0.49	0.44	0.41	0.48	0.44	0.41	0.48	0.44	0.40	0.39
9	0.47	0.42	0.38	0.47	0.41	0.38	0.46	0.41	0.38	0.45	0.41	0.37	0.44	0.40	0.37	0.36
10	0.44	0.39	0.35	0.44	0.38	0.35	0.43	0.38	0.35	0.42	0.38	0.35	0.42	0.38	0.35	0.33



Intensity data(cd)

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	1221.95	1216.57	1218.96	1188.49	1125.74	1021.77	895.70	739.14	561.68
22.5	1229.12	1232.10	1218.96	1189.08	1107.82	997.28	878.97	726.00	563.47
45.0	1235.69	1232.70	1219.56	1180.60	1121.14	1018.07	897.85	755.52	626.63
67.5	1244.65	1241.07	1225.53	1196.25	1144.87	1070.17	966.20	835.35	666.24
90.0	1244.65	1239.28	1224.34	1179.58	1135.31	1053.74	938.96	775.59	564.96
112.5	1241.67	1243.46	1230.91	1202.83	1151.44	1083.92	979.35	839.53	663.85
135.0	1237.48	1240.47	1232.70	1191.41	1133.09	1038.21	921.15	786.23	654.29
157.5	1227.92	1230.91	1226.13	1192.07	1131.12	1015.80	896.89	760.06	594.54
180.0	1221.95	1214.78	1191.47	1158.13	1082.18	966.56	834.15	662.72	457.83
202.5	1229.12	1228.52	1224.93	1191.89	1135.31	1027.81	903.17	752.71	594.60
225.0	1235.69	1233.30	1221.35	1200.44	1154.43	1077.34	975.17	852.08	710.46
247.5	1244.65	1240.47	1221.35	1189.86	1148.15	1079.97	985.33	849.75	700.48
270.0	1244.65	1240.47	1218.96	1192.67	1149.65	1091.69	1000.86	878.37	717.63
292.5	1241.67	1231.51	1212.39	1178.09	1138.05	1068.38	976.42	840.42	693.25
315.0	1237.48	1226.73	1216.57	1197.45	1153.23	1073.76	969.19	845.50	707.47
337.5	1227.92	1231.51	1221.95	1183.76	1132.02	1020.16	894.08	751.57	600.52
360.0	1221.95	1216.57	1218.96	1188.49	1125.74	1021.77	895.70	739.14	561.68

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	308.32	92.44	34.42	13.98	8.96	8.01	7.41	6.99	6.33
22.5	302.35	98.17	31.73	13.62	10.28	9.56	7.65	7.23	6.27
45.0	475.93	268.77	75.71	15.66	8.25	7.71	7.65	6.93	6.04
67.5	427.83	187.27	59.51	31.01	9.02	8.66	8.66	7.41	6.04
90.0	266.38	84.97	47.92	13.03	9.02	9.26	9.08	6.39	6.04
112.5	400.34	163.42	58.86	27.31	9.02	8.96	8.84	7.47	5.98
135.0	494.81	296.67	88.73	17.15	8.48	7.71	7.77	6.99	5.92
157.5	351.94	135.46	38.90	18.40	11.77	9.86	8.66	7.83	6.15
180.0	189.66	53.42	25.69	11.95	10.46	10.22	9.44	8.66	6.21
202.5	350.45	124.64	41.77	19.48	10.99	10.64	9.32	8.48	6.75
225.0	557.49	405.72	179.68	36.15	12.07	8.43	7.95	7.35	6.33
247.5	512.80	262.02	74.63	28.44	9.20	8.54	7.65	6.99	6.09
270.0	485.19	308.92	57.48	24.74	9.02	8.90	7.95	7.41	6.09
292.5	495.35	229.99	64.00	26.83	9.50	8.84	7.89	6.99	5.98
315.0	548.53	405.72	249.65	43.44	12.19	8.66	8.07	7.35	6.04
337.5	376.92	132.23	40.69	17.27	10.40	8.90	7.53	6.99	6.15
360.0	308.32	92.44	34.42	13.98	8.96	8.01	7.41	6.99	6.33

C/γ(°)	90.0
0.0	6.15
22.5	6.15
45.0	6.33
67.5	6.21
90.0	6.21
112.5	6.09
135.0	6.21
157.5	6.15
180.0	6.09
202.5	6.15
225.0	5.98
247.5	5.98
270.0	6.04
292.5	5.92
315.0	5.92
337.5	6.04
360.0	6.15