
PQL 55174 LED 2 X 2 PANEL- 40W/40K- 120-277V/DIMMABLE/V4- SUPERIOR LIFE®

LumCAT: 55174
Report No: SENSING20100322s001 Voltage(V): 0.000
Test No: Current(A): 0.000
LampCAT: 2835 4000K Power (W): 39.200
Lamp flux(lm): 3907.0 PF:0.000
Number of Lamps:1 Ballast type:
Length(mm): 600 Width(mm): 600
Phm Type:C Height(mm): 10

Photometric Results

Lumens(lm): 3906.53
Efficiency(%): 99.99%
Lumens(lm)/Power(W): 99.66
Central intensity(cd): 1322.022
Maximum intensity(cd): 1326.181
Angle of maximum intensity: C=30.0 γ =0.0
Beam Angle(50%lmax): [V]Left=56.0 Right=57.8
 [H]Left=56.0 Right=58.0
Field angle(10%lmax): [V]Left=81.6 Right=83.3
 [H]Left=81.5 Right=83.2
Maximum s/h: C0_180=0.64 C90_270=0.64
Up flux rate of lamp(%): 0.56%
Down flux rate of lamp(%): 99.42%
Up flux rate of luminaire(%):0.56%
Down flux rate of luminaire(%):99.44%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 76.967%

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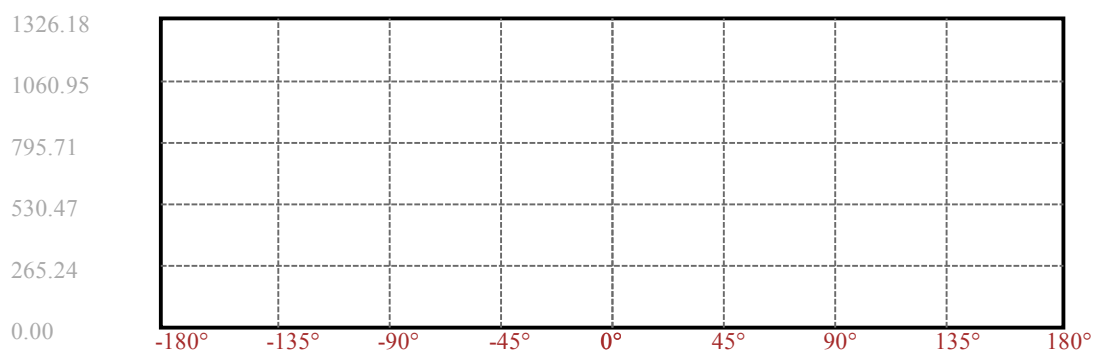
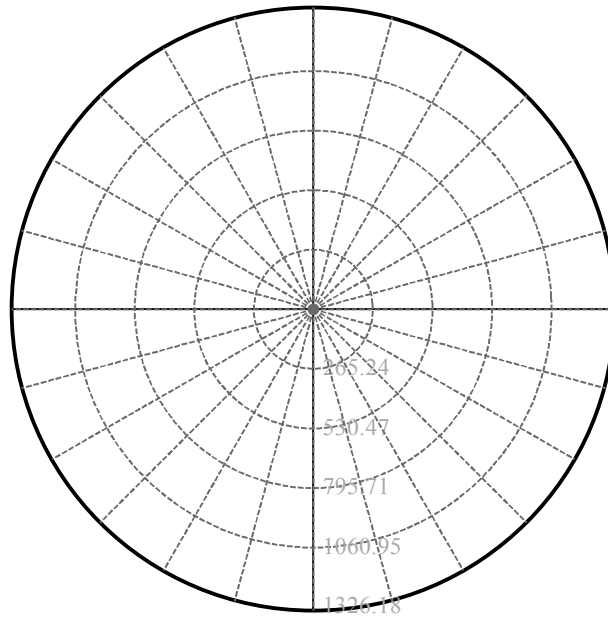
Zonal flux distribution table

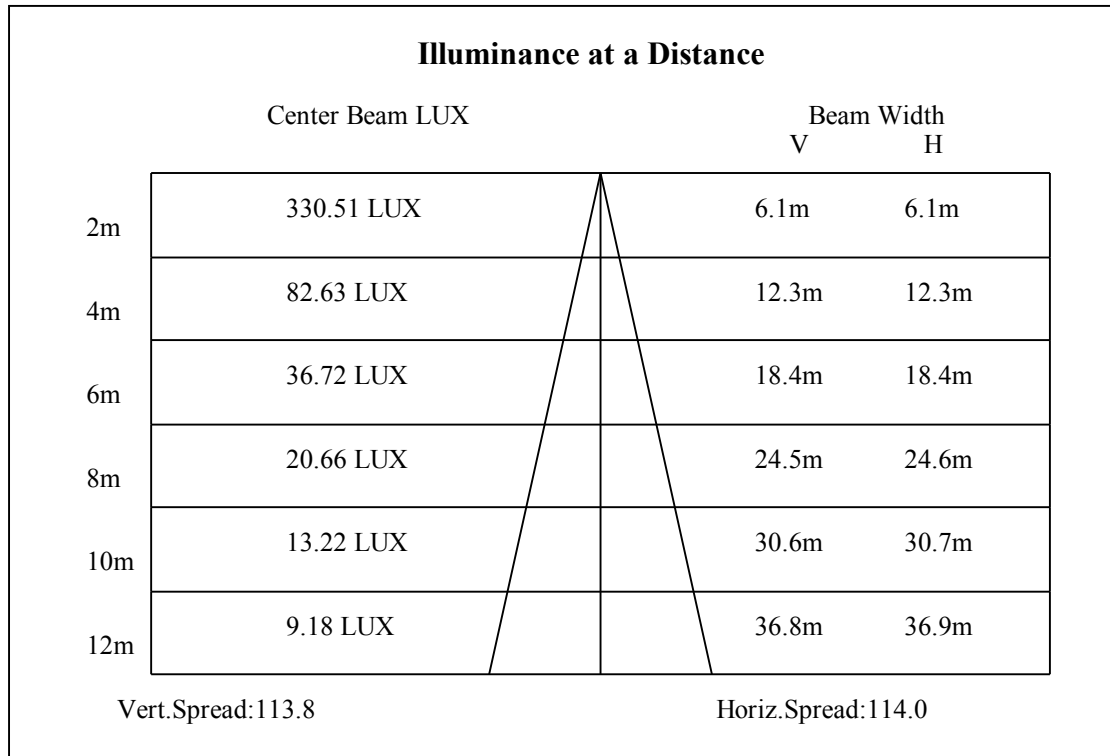
γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(lm)	Eff Sum(lm)
0.0	1323.877	.000	.000	.000%	.000%
5.0	1317.776	31.580	31.580	.808%	.808%
10.0	1300.285	93.656	125.237	2.397%	3.205%
15.0	1272.011	152.587	277.823	3.905%	7.111%
20.0	1233.788	206.513	484.336	5.286%	12.397%
25.0	1183.457	253.525	737.861	6.489%	18.886%
30.0	1123.070	291.893	1029.754	7.471%	26.357%
35.0	1056.750	320.994	1350.748	8.216%	34.573%
40.0	978.416	339.552	1690.300	8.691%	43.263%
45.0	892.519	346.419	2036.719	8.867%	52.130%
50.0	801.601	342.322	2379.040	8.762%	60.892%
55.0	702.285	326.995	2706.035	8.369%	69.261%
60.0	598.680	300.714	3006.750	7.697%	76.958%
65.0	493.567	265.527	3272.277	6.796%	83.754%
70.0	384.262	222.272	3494.549	5.689%	89.443%
75.0	278.822	173.319	3667.868	4.436%	93.879%
80.0	177.671	122.145	3790.013	3.126%	97.006%
85.0	82.322	70.646	3860.659	1.808%	98.814%
90.0	4.784	23.850	3884.510	.610%	99.424%
95.0	1.434	1.702	3886.212	.044%	99.468%
100.0	1.651	.838	3887.051	.021%	99.489%
105.0	1.943	.962	3888.012	.025%	99.514%
110.0	2.304	1.110	3889.122	.028%	99.542%
115.0	2.704	1.268	3890.390	.032%	99.575%
120.0	3.119	1.416	3891.806	.036%	99.611%
125.0	3.527	1.536	3893.342	.039%	99.650%
130.0	3.948	1.625	3894.968	.042%	99.692%
135.0	4.363	1.679	3896.647	.043%	99.735%
140.0	4.729	1.683	3898.330	.043%	99.778%
145.0	5.103	1.640	3899.970	.042%	99.820%
150.0	5.443	1.553	3901.523	.040%	99.860%
155.0	5.749	1.416	3902.940	.036%	99.896%
160.0	6.007	1.233	3904.173	.032%	99.928%
165.0	6.217	1.007	3905.180	.026%	99.953%
170.0	6.313	.743	3905.923	.019%	99.972%
175.0	6.360	.453	3906.376	.012%	99.984%
180.0	6.394	.152	3906.529	.004%	99.988%

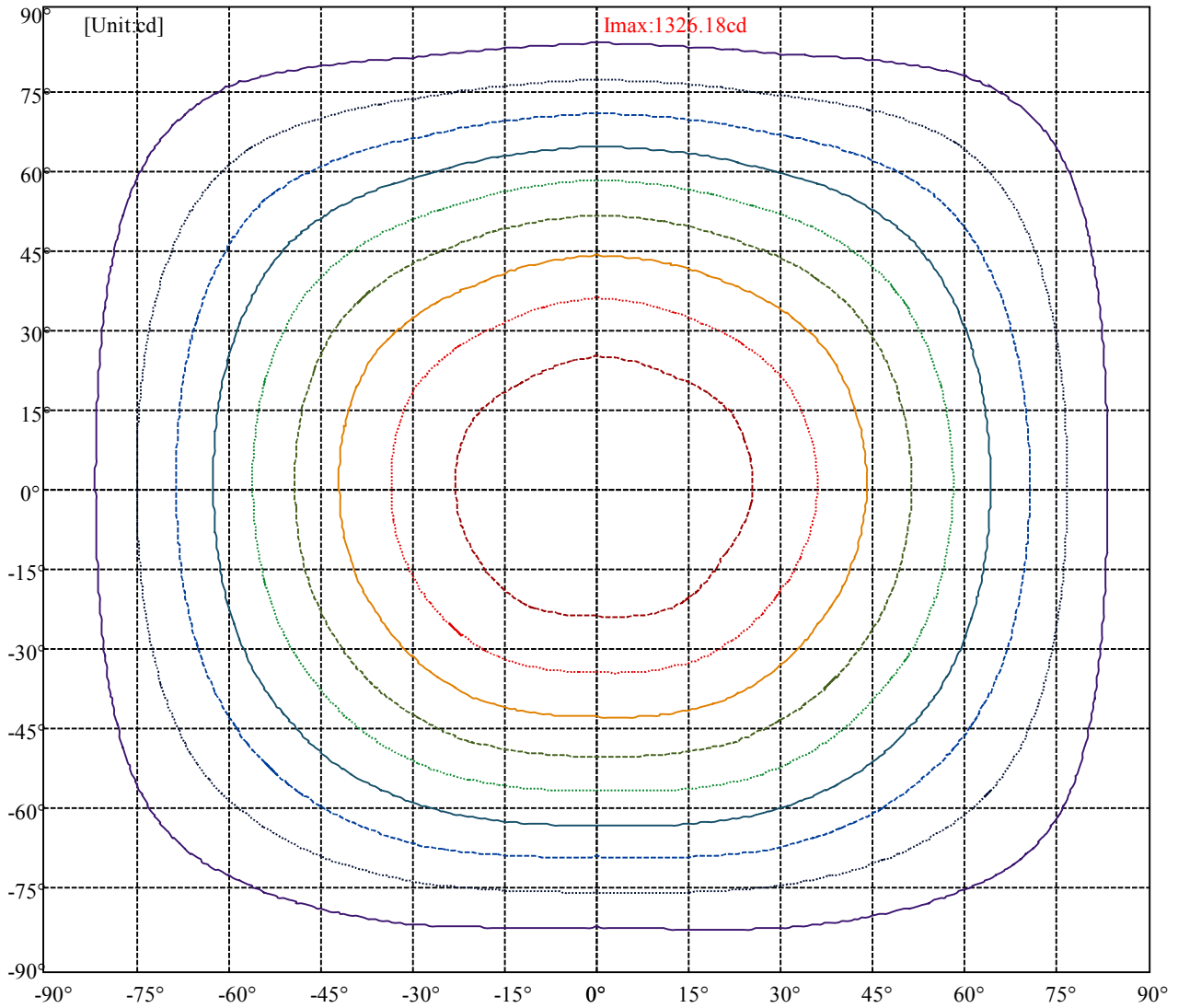
ZONAL LUMEN SUMMARY			
Zone	Lumens	%Lamp	%Fixt
0-30	1029.754	26.357%	26.360%
0-40	1690.300	43.263%	43.269%
0-60	3006.750	76.958%	76.967%
0-90	3884.510	99.424%	99.436%
90-120	7.296	.187%	.187%
90-130	10.458	.268%	.268%
90-150	17.014	.435%	.436%
90-180	21.867	.560%	.560%
0-180	3906.529	99.988%	100.000%

ZONAL LUMEN SUMMARY

0-10	125.237
10-20	359.100
20-30	545.417
30-40	660.546
40-50	688.741
50-60	627.709
60-70	487.799
70-80	295.464
80-90	94.497
90-100	2.541
100-110	2.072
110-120	2.684
120-130	3.161
130-140	3.363
140-150	3.193
150-160	2.649
160-170	1.751
170-180	.453





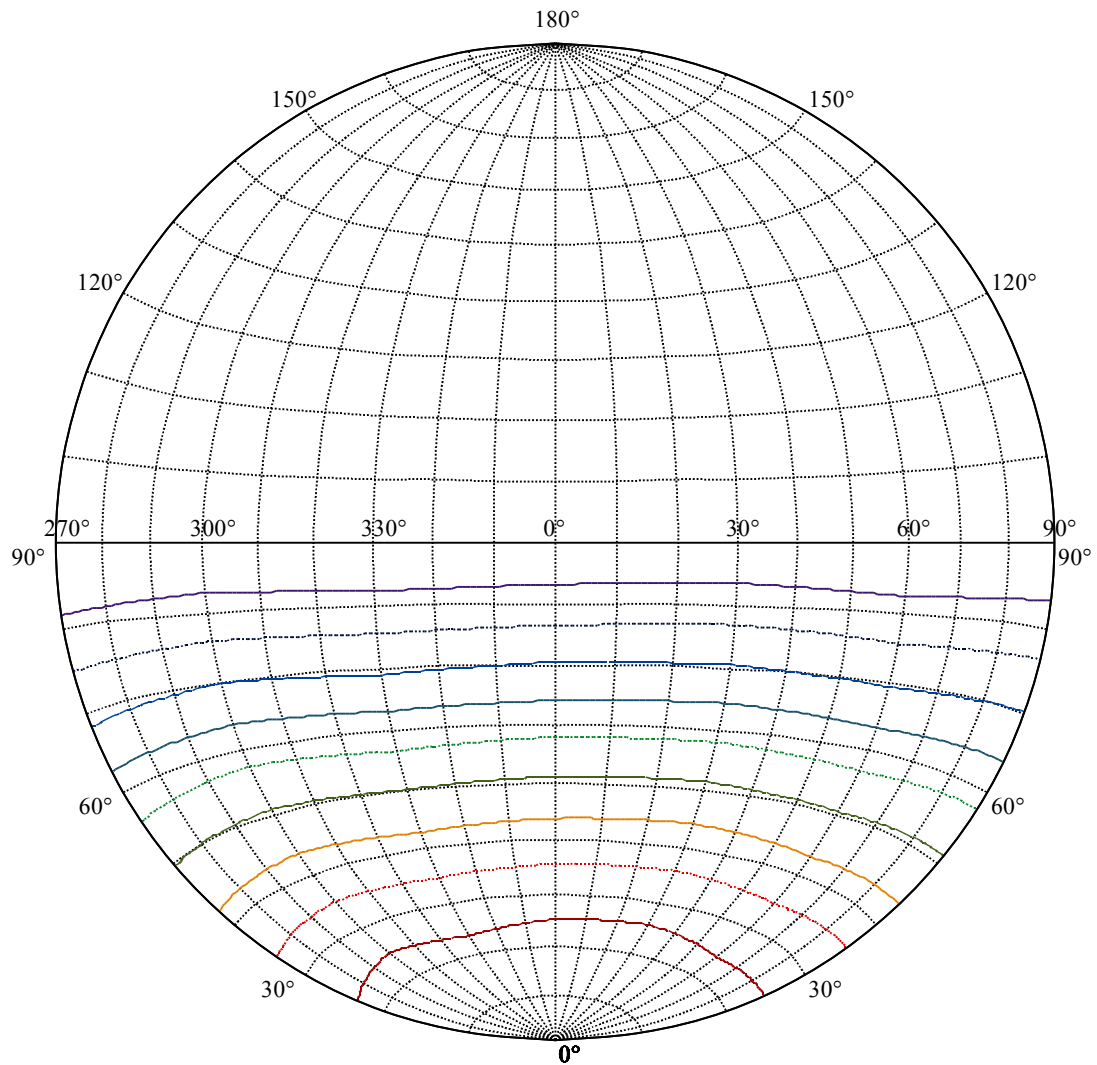


(10%Imax) 132.422	—
(20%Imax) 264.845
(30%Imax) 397.267	- - - - -
(40%Imax) 529.69	—
(50%Imax) 662.112
(60%Imax) 794.534	- - - - -
(70%Imax) 926.957	—
(80%Imax) 1059.38
(90%Imax) 1191.8	- - - - -

Equipment: GMS2200
 Temperature(°C): 25

Date:
 Humidity(%): 60%

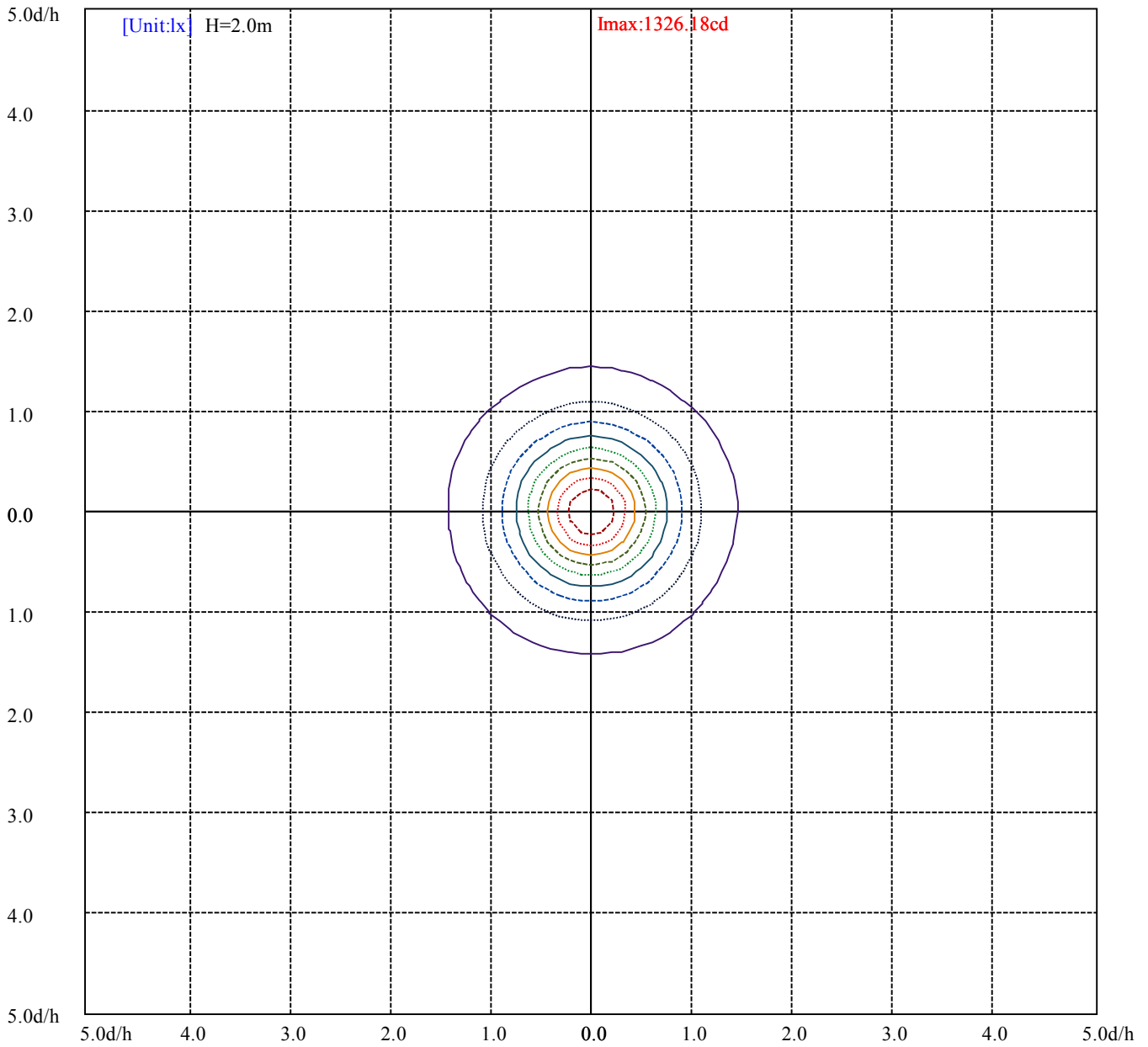
Operator:
 Distance(m): 13.72



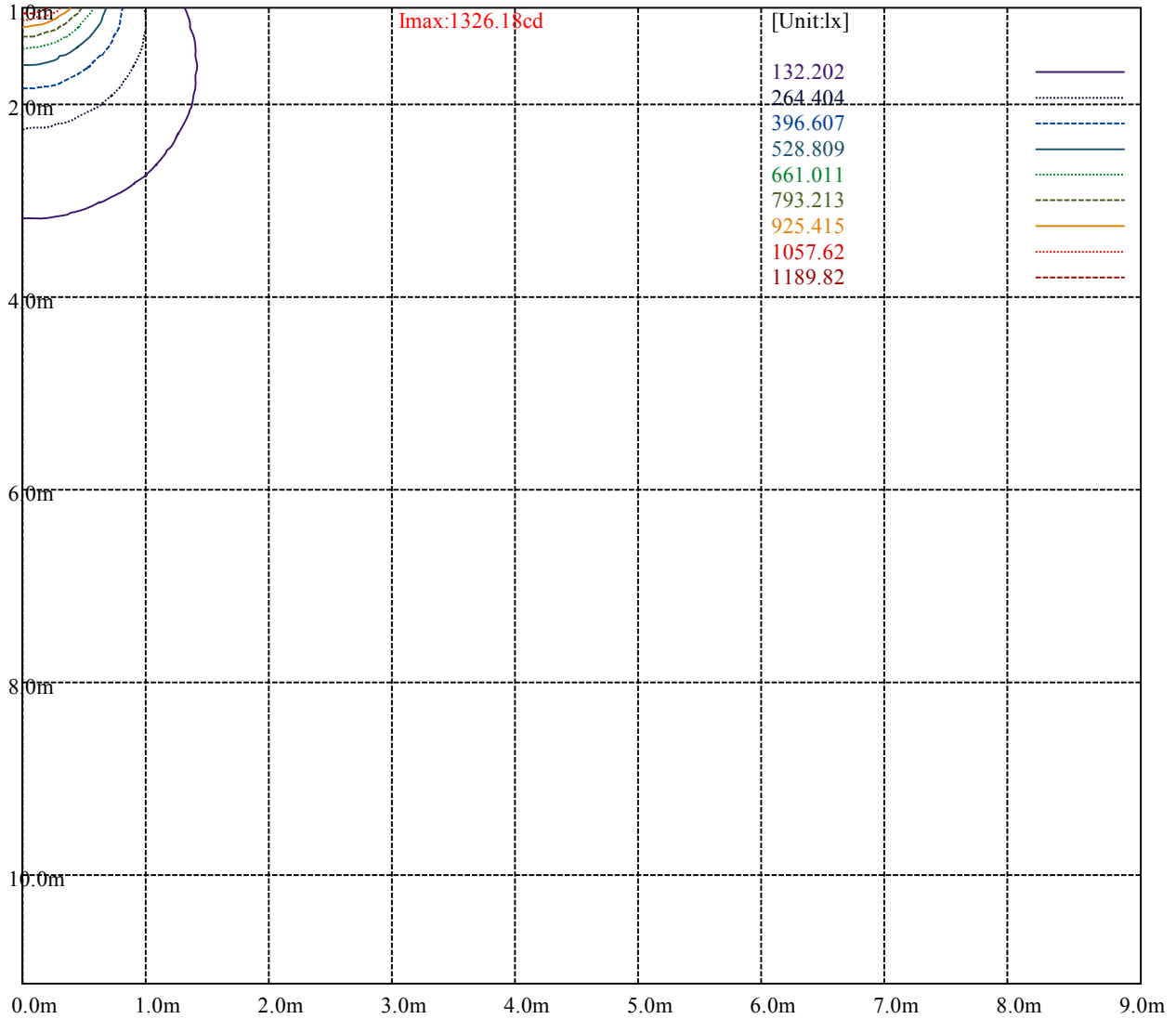
House

Road

I_{max}:1326.18cd	—
(10%I _{max}) 132.618	—
(20%I _{max}) 265.236	—
(30%I _{max}) 397.854	—
(40%I _{max}) 530.472	—
(50%I _{max}) 663.091	—
(60%I _{max}) 795.709	—
(70%I _{max}) 928.327	—
(80%I _{max}) 1060.94	—
(90%I _{max}) 1193.56	—



(10%Emax) 33.127	———
(20%Emax) 66.254
(30%Emax) 99.381	- - - - -
(40%Emax) 132.508	———
(50%Emax) 165.635
(60%Emax) 198.762	- - - - -
(70%Emax) 231.889	———
(80%Emax) 265.015
(90%Emax) 298.1425	- - - - -

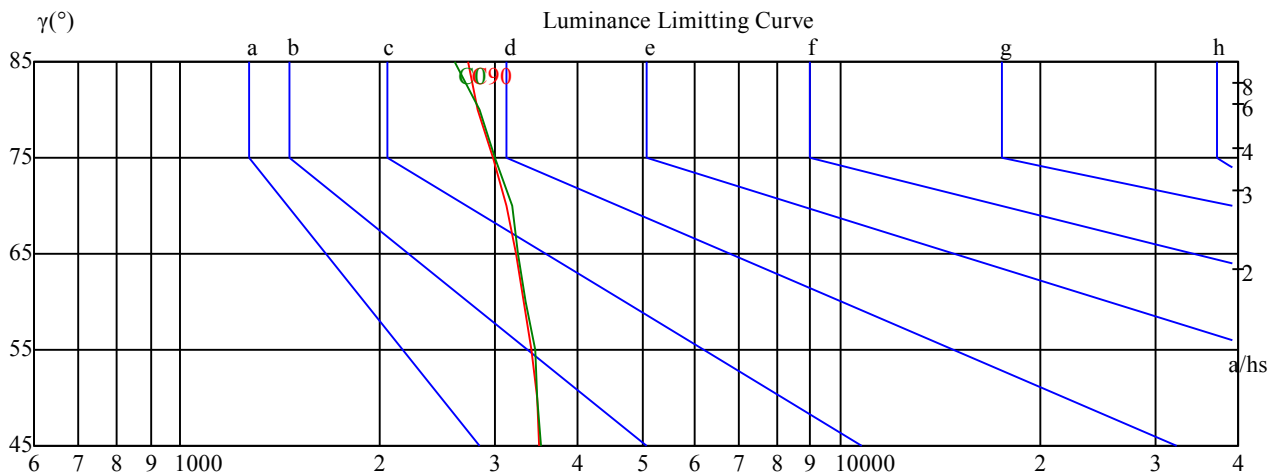


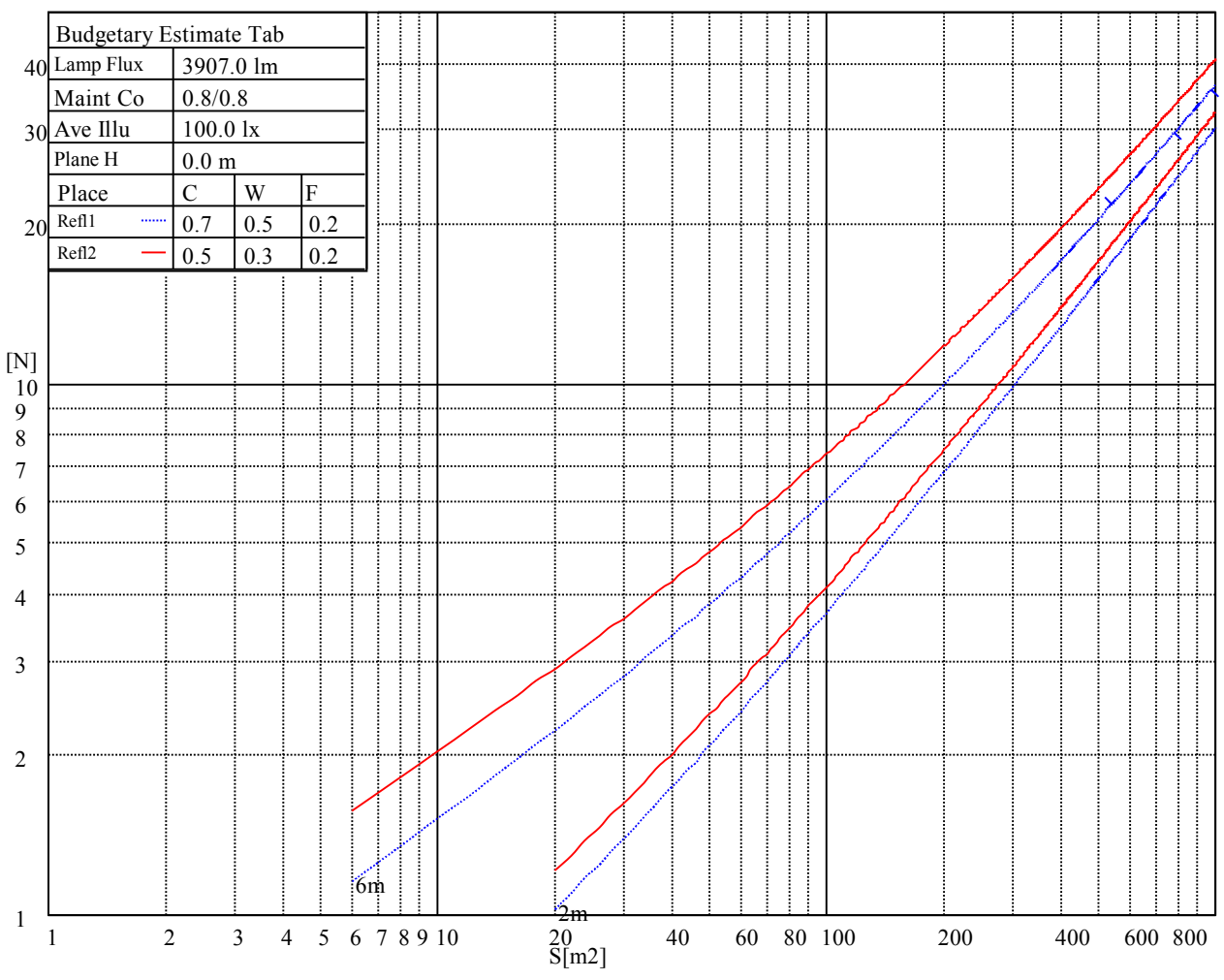
Luminance Table

γ	45	50	55	60	65	70	75	80	85
C0	3509	3461	3454	3330	3240	3172	2995	2832	2606
C45	0	0	0	0	0	0	0	0	0
C90	3493	3466	3412	3314	3225	3116	2982	2816	2729

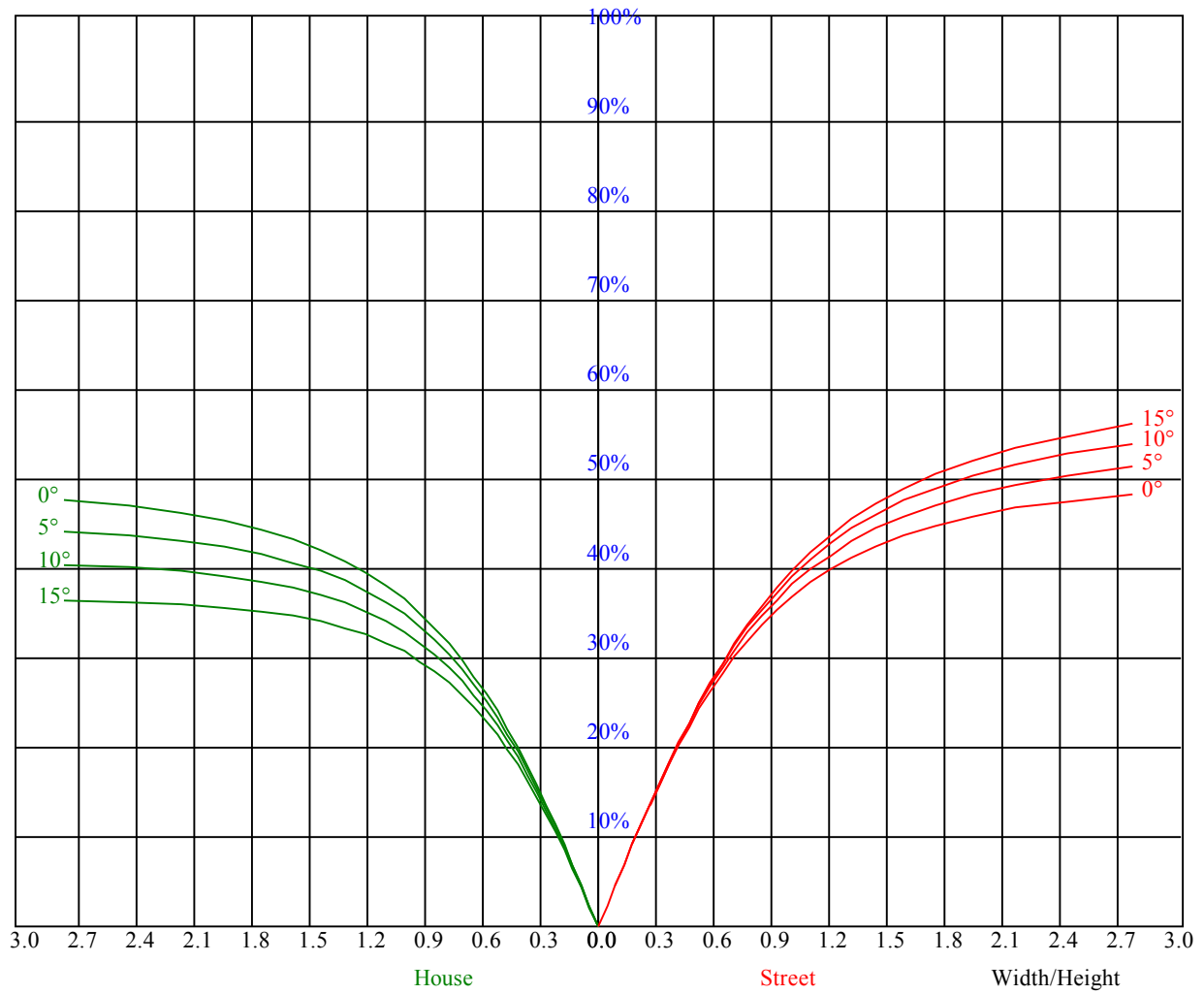
Glare Table

Glare	Quality	Service Values Illuminance(lx)							
		a	b	c	d	e	f	g	h
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





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	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	0.99
1	1.03	0.99	0.95	1.01	0.97	0.93	0.97	0.93	0.90	0.93	0.90	0.87	0.89	0.87	0.85	0.82
2	0.90	0.83	0.77	0.88	0.81	0.76	0.84	0.79	0.74	0.81	0.76	0.72	0.78	0.74	0.70	0.68
3	0.79	0.70	0.64	0.77	0.69	0.63	0.74	0.67	0.62	0.71	0.65	0.61	0.68	0.64	0.59	0.57
4	0.69	0.61	0.54	0.68	0.60	0.53	0.65	0.58	0.52	0.63	0.57	0.52	0.61	0.55	0.51	0.49
5	0.62	0.53	0.46	0.61	0.52	0.46	0.59	0.51	0.45	0.57	0.50	0.45	0.55	0.49	0.44	0.42
6	0.56	0.47	0.40	0.55	0.46	0.40	0.53	0.45	0.40	0.51	0.44	0.39	0.49	0.43	0.39	0.37
7	0.50	0.42	0.35	0.50	0.41	0.35	0.48	0.40	0.35	0.47	0.40	0.35	0.45	0.39	0.34	0.32
8	0.46	0.37	0.32	0.45	0.37	0.31	0.44	0.36	0.31	0.43	0.36	0.31	0.41	0.35	0.31	0.29
9	0.42	0.34	0.28	0.42	0.34	0.28	0.40	0.33	0.28	0.39	0.33	0.28	0.38	0.32	0.28	0.26
10	0.39	0.31	0.26	0.38	0.31	0.26	0.37	0.30	0.25	0.36	0.30	0.25	0.35	0.29	0.25	0.23



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Intensity data(cd)									
Page: 14 Total:15									
C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	1322.02	1317.95	1304.33	1277.18	1243.99	1197.10	1134.72	1073.57	997.90
30.0	1326.18	1322.76	1309.47	1282.64	1250.27	1203.71	1141.74	1075.12	1005.73
60.0	1323.98	1320.72	1303.59	1275.06	1235.92	1184.46	1126.90	1058.81	979.31
90.0	1324.22	1320.31	1302.13	1276.20	1239.01	1191.15	1131.95	1072.10	992.11
120.0	1323.16	1314.44	1293.48	1267.15	1227.60	1172.56	1111.89	1048.45	964.47
150.0	1323.49	1317.70	1299.03	1269.84	1230.86	1180.47	1120.86	1054.49	978.33
180.0	1322.43	1313.05	1294.38	1264.70	1224.17	1168.64	1107.08	1037.04	958.68
210.0	1326.18	1316.64	1297.32	1265.11	1225.15	1169.54	1107.00	1041.60	956.23
240.0	1323.98	1317.86	1301.47	1273.34	1233.55	1183.48	1123.47	1054.24	976.86
270.0	1324.22	1317.54	1296.66	1267.47	1227.19	1176.31	1115.64	1045.68	967.16
300.0	1323.16	1317.78	1302.53	1274.57	1236.89	1193.60	1130.81	1063.70	992.03
330.0	1323.49	1316.56	1299.03	1270.90	1230.86	1180.47	1124.78	1056.20	972.21
360.0	1322.02	1317.95	1304.33	1277.18	1243.99	1197.10	1134.72	1073.57	997.90
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	908.20	816.80	730.28	616.61	510.53	408.44	296.40	193.74	97.36
30.0	916.28	825.19	727.75	625.50	519.42	411.62	310.10	201.49	104.94
60.0	897.28	805.54	702.96	599.41	498.22	384.96	278.79	177.11	82.60
90.0	903.88	818.02	721.23	613.76	508.16	401.26	295.10	192.68	101.93
120.0	879.26	792.82	689.10	586.61	480.85	374.03	268.92	168.14	69.15
150.0	894.18	803.18	706.14	598.27	499.44	393.11	281.32	180.04	90.84
180.0	872.90	776.03	681.76	579.10	473.59	361.15	262.07	161.94	64.91
210.0	869.23	782.14	676.14	572.42	465.76	358.29	252.86	152.56	56.10
240.0	891.57	799.59	701.33	593.37	491.94	384.30	272.92	176.29	82.11
270.0	881.05	787.85	681.93	584.89	478.32	358.78	264.68	163.49	64.91
300.0	903.39	811.82	714.14	616.53	505.23	397.59	284.99	188.60	92.30
330.0	893.04	800.24	694.65	597.70	491.37	377.62	277.73	175.97	80.73
360.0	908.20	816.80	730.28	616.61	510.53	408.44	296.40	193.74	97.36
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	9.46	1.39	1.55	1.88	2.20	2.61	3.02	3.43	3.83
30.0	17.61	1.39	1.55	1.88	2.12	2.53	2.94	3.34	3.75
60.0	2.20	1.39	1.63	1.88	2.28	2.69	3.10	3.51	3.91
90.0	11.42	1.39	1.63	1.88	2.20	2.61	3.02	3.43	3.91
120.0	1.39	1.47	1.63	1.96	2.28	2.69	3.10	3.51	4.00
150.0	4.49	1.39	1.63	1.88	2.28	2.69	3.10	3.51	3.91
180.0	1.31	1.47	1.71	1.96	2.37	2.77	3.18	3.59	4.00
210.0	1.39	1.47	1.71	2.04	2.45	2.85	3.26	3.67	4.08
240.0	1.63	1.47	1.71	2.04	2.37	2.77	3.18	3.59	4.00
270.0	1.39	1.47	1.79	2.04	2.45	2.85	3.26	3.67	4.08
300.0	3.75	1.47	1.63	1.96	2.28	2.69	3.10	3.51	3.91
330.0	1.39	1.47	1.63	1.96	2.37	2.69	3.18	3.59	4.00
360.0	9.46	1.39	1.55	1.88	2.20	2.61	3.02	3.43	3.83
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	4.24	4.65	4.97	5.38	5.71	5.95	6.20	6.28	6.36
30.0	4.16	4.65	4.97	5.30	5.63	5.95	6.20	6.28	6.36
60.0	4.32	4.65	5.06	5.46	5.71	5.95	6.28	6.28	6.36
90.0	4.32	4.65	5.06	5.38	5.71	5.95	6.20	6.28	6.36
120.0	4.40	4.73	5.14	5.46	5.71	6.03	6.20	6.36	6.36
150.0	4.32	4.65	5.06	5.38	5.71	5.95	6.20	6.36	6.36
180.0	4.40	4.81	5.14	5.46	5.79	6.03	6.20	6.28	6.36
210.0	4.49	4.81	5.22	5.55	5.87	6.12	6.28	6.36	6.36
240.0	4.40	4.81	5.14	5.46	5.79	6.03	6.20	6.28	6.36
270.0	4.57	4.89	5.22	5.55	5.79	6.12	6.28	6.28	6.36
300.0	4.32	4.73	5.14	5.46	5.79	6.03	6.20	6.36	6.36
330.0	4.40	4.73	5.14	5.46	5.79	5.95	6.20	6.36	6.36
360.0	4.24	4.65	4.97	5.38	5.71	5.95	6.20	6.28	6.36

Equipment: GMS2200
 Temperature(°C): 25

Date:
 Humidity(%): 60%

Operator:
 Distance(m): 13.72

Intensity data(cd)

C/γ(°)	180.0
0.0	6.36
30.0	6.36
60.0	6.44
90.0	6.44
120.0	6.36
150.0	6.44
180.0	6.36
210.0	6.36
240.0	6.44
270.0	6.36
300.0	6.36
330.0	6.44
360.0	6.36