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55170 LED 1 X 4 PANEL- 35W/40K- 120-277V/DIMMABLE/V4- SUPERIOR LIFE®

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LumCAT: 55170  
Report No: SENSING20100322s001      Voltage(V): 0.000  
Test No:      Current(A): 0.000  
LampCAT: 2835 4000K      Power (W): 34.800  
Lamp flux(lm): 3181.0      PF:0.000  
Number of Lamps:1      Ballast type:  
Length(mm): 1200      Width(mm): 300  
Phm Type:C      Height(mm): 9

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Photometric Results

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Lumens(lm): 3181.08  
Efficiency(%): 100.00%  
Lumens(lm)/Power(W): 91.41  
Central intensity(cd): 1069.246  
Maximum intensity(cd): 1071.937  
Angle of maximum intensity: C=30.0  $\gamma$ =0.0  
Beam Angle(50%lmax): [V]Left=57.1 Right=56.7  
                                  [H]Left=56.3 Right=58.4  
Field angle(10%lmax): [V]Left=82.2 Right=83.2  
                                  [H]Left=81.9 Right=83.5  
Maximum s/h: C0\_180=0.64 C90\_270=0.62  
Up flux rate of lamp(%): 0.58%  
Down flux rate of lamp(%): 99.42%  
Up flux rate of luminaire(%):0.58%  
Down flux rate of luminaire(%):99.42%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 76.655%

## 55170 LED 1 X 4 PANEL- 35W 40K

## Zonal flux distribution table

Page: 2 Total:15

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(lm)	Eff Sum(lm)
0.0	1069.987	.000	.000	.000%	.000%
5.0	1065.468	25.529	25.529	.803%	.803%
10.0	1051.552	75.732	101.261	2.381%	3.183%
15.0	1028.856	123.408	224.670	3.880%	7.063%
20.0	998.577	167.089	391.759	5.253%	12.316%
25.0	958.296	205.240	596.998	6.452%	18.768%
30.0	910.486	236.496	833.494	7.435%	26.202%
35.0	856.764	260.240	1093.734	8.181%	34.383%
40.0	793.420	275.321	1369.055	8.655%	43.039%
45.0	723.825	280.930	1649.985	8.832%	51.870%
50.0	651.186	277.841	1927.826	8.734%	60.604%
55.0	571.724	265.901	2193.728	8.359%	68.963%
60.0	486.976	244.716	2438.443	7.693%	76.657%
65.0	404.205	216.648	2655.091	6.811%	83.467%
70.0	316.956	182.603	2837.694	5.740%	89.208%
75.0	231.067	143.244	2980.938	4.503%	93.711%
80.0	148.065	101.445	3082.383	3.189%	96.900%
85.0	70.383	59.358	3141.740	1.866%	98.766%
90.0	5.980	20.909	3162.649	.657%	99.423%
95.0	1.169	1.957	3164.606	.062%	99.485%
100.0	1.366	.689	3165.295	.022%	99.506%
105.0	1.610	.796	3166.092	.025%	99.531%
110.0	1.875	.911	3167.003	.029%	99.560%
115.0	2.195	1.031	3168.033	.032%	99.592%
120.0	2.541	1.151	3169.185	.036%	99.629%
125.0	2.888	1.255	3170.439	.039%	99.668%
130.0	3.207	1.325	3171.765	.042%	99.710%
135.0	3.506	1.357	3173.121	.043%	99.752%
140.0	3.839	1.360	3174.481	.043%	99.795%
145.0	4.111	1.326	3175.808	.042%	99.837%
150.0	4.396	1.253	3177.061	.039%	99.876%
155.0	4.634	1.143	3178.203	.036%	99.912%
160.0	4.824	.992	3179.195	.031%	99.943%
165.0	4.967	.807	3180.002	.025%	99.969%
170.0	5.056	.595	3180.597	.019%	99.987%
175.0	5.117	.364	3180.961	.011%	99.999%
180.0	5.124	.122	3181.083	.004%	100.003%

Equipment: GMS2200  
Temperature( $^{\circ}$ C): 25

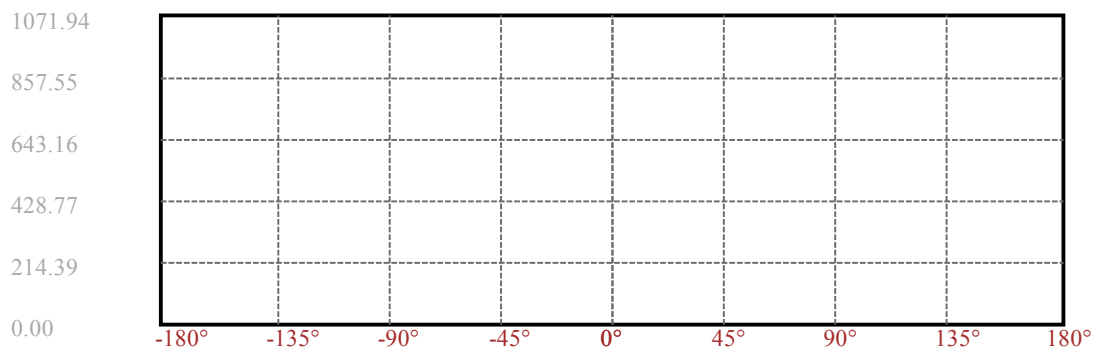
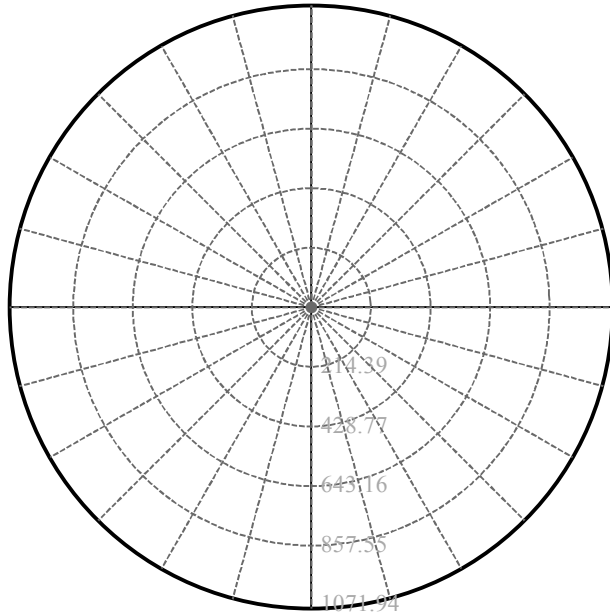
Date:  
Humidity(%): 60%

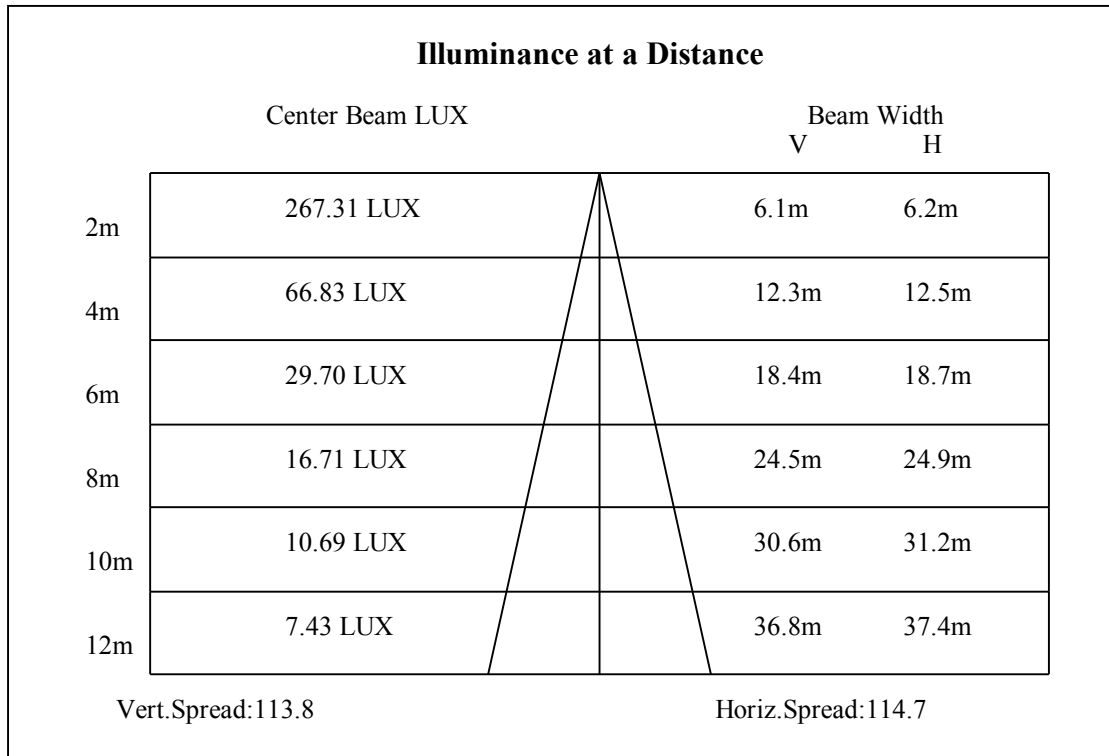
Operator:  
Distance(m): 13.72

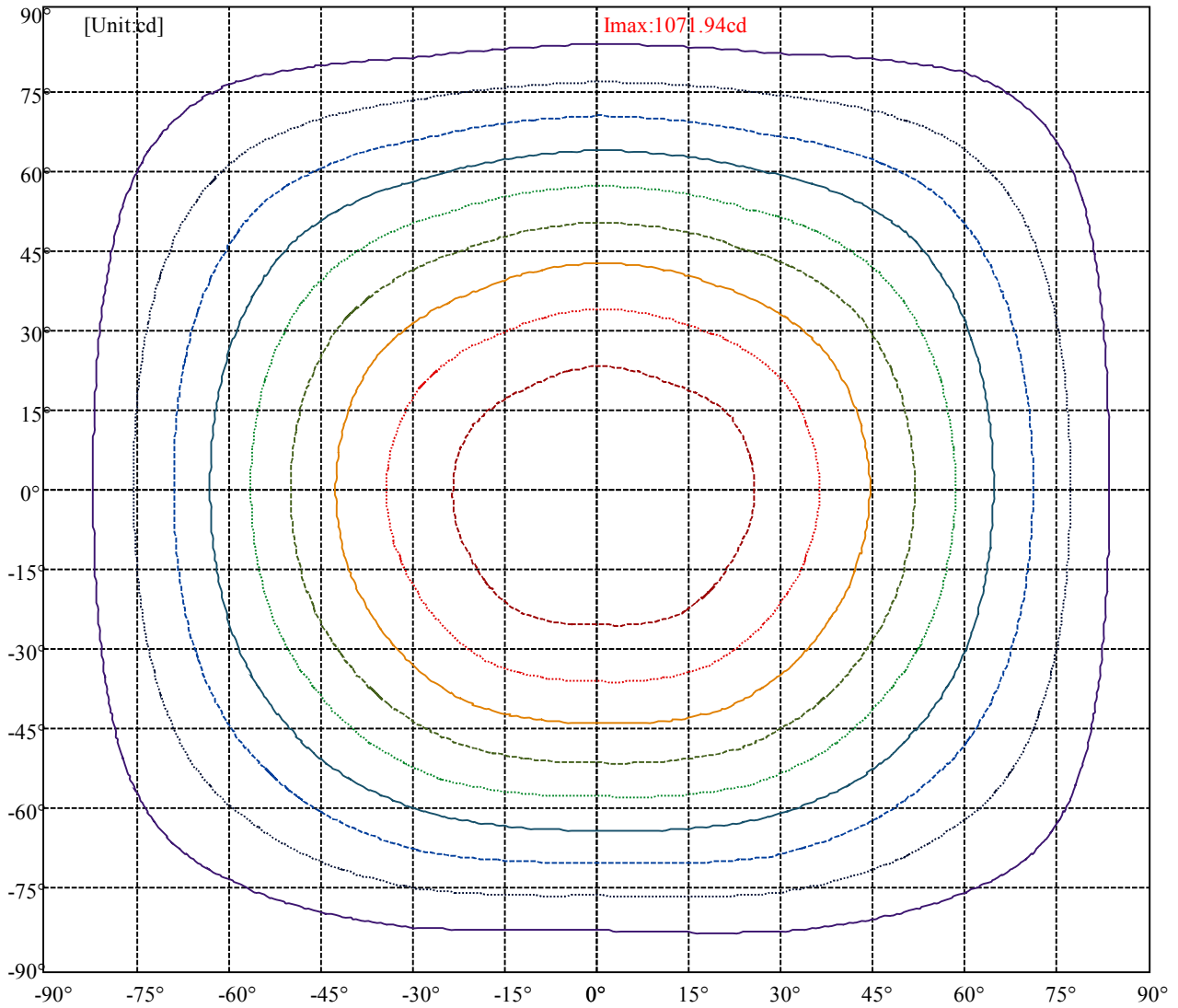
ZONAL LUMEN SUMMARY			
Zone	Lumens	%Lamp	%Fixt
0-30	833.494	26.202%	26.202%
0-40	1369.055	43.039%	43.037%
0-60	2438.443	76.657%	76.654%
0-90	3162.649	99.423%	99.421%
90-120	6.536	.205%	.205%
90-130	9.116	.287%	.287%
90-150	14.412	.453%	.453%
90-180	18.312	.576%	.576%
0-180	3181.083	100.003%	100.000%

## ZONAL LUMEN SUMMARY

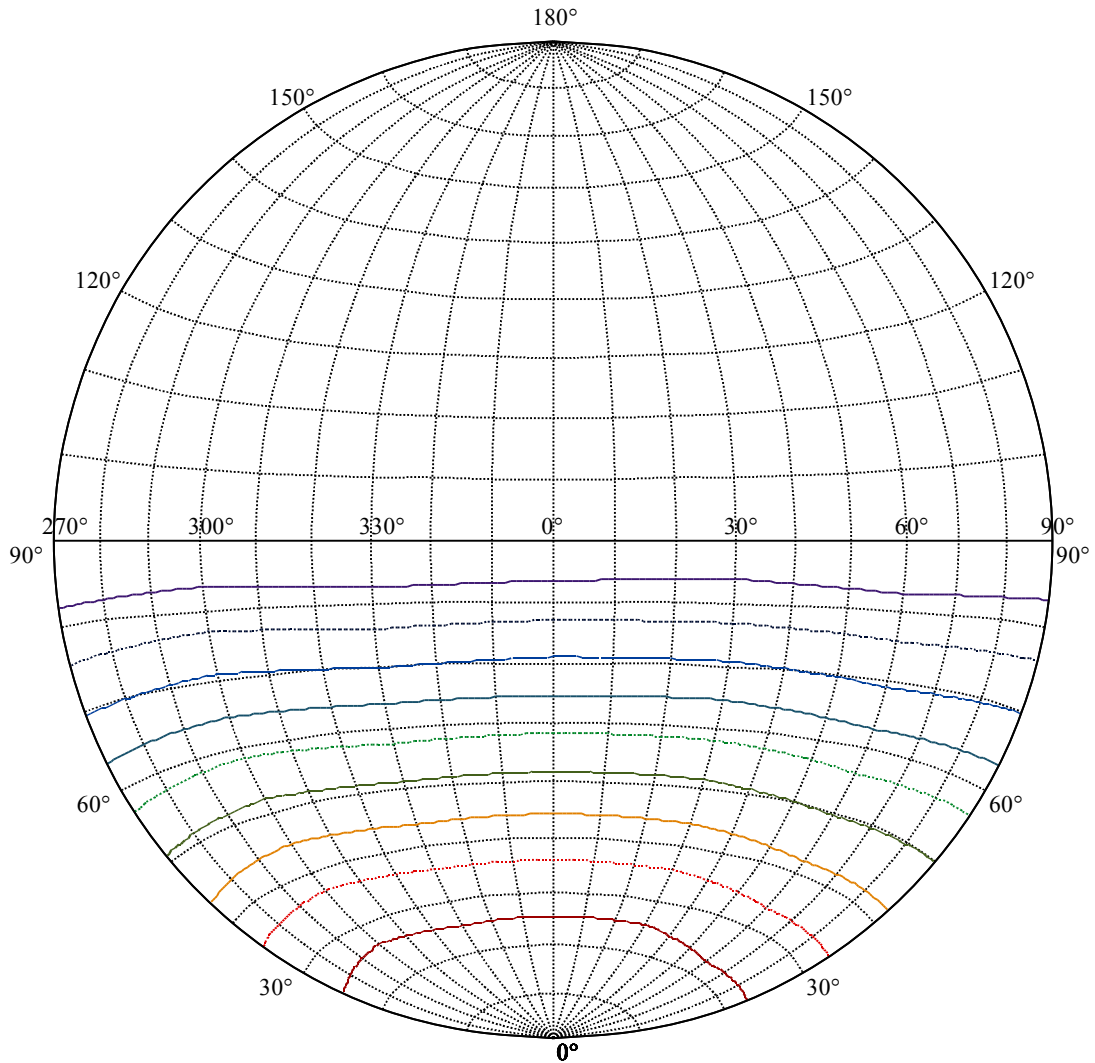
0-10	101.261
10-20	290.497
20-30	441.736
30-40	535.561
40-50	558.771
50-60	510.617
60-70	399.250
70-80	244.689
80-90	80.266
90-100	2.646
100-110	1.707
110-120	2.182
120-130	2.580
130-140	2.717
140-150	2.579
150-160	2.135
160-170	1.402
170-180	.364







(10%Imax) 107.011	—
(20%Imax) 214.021	⋯
(30%Imax) 321.032	- - -
(40%Imax) 428.043	—
(50%Imax) 535.053	⋯
(60%Imax) 642.064	- - -
(70%Imax) 749.075	—
(80%Imax) 856.085	⋯
(90%Imax) 963.096	- - -

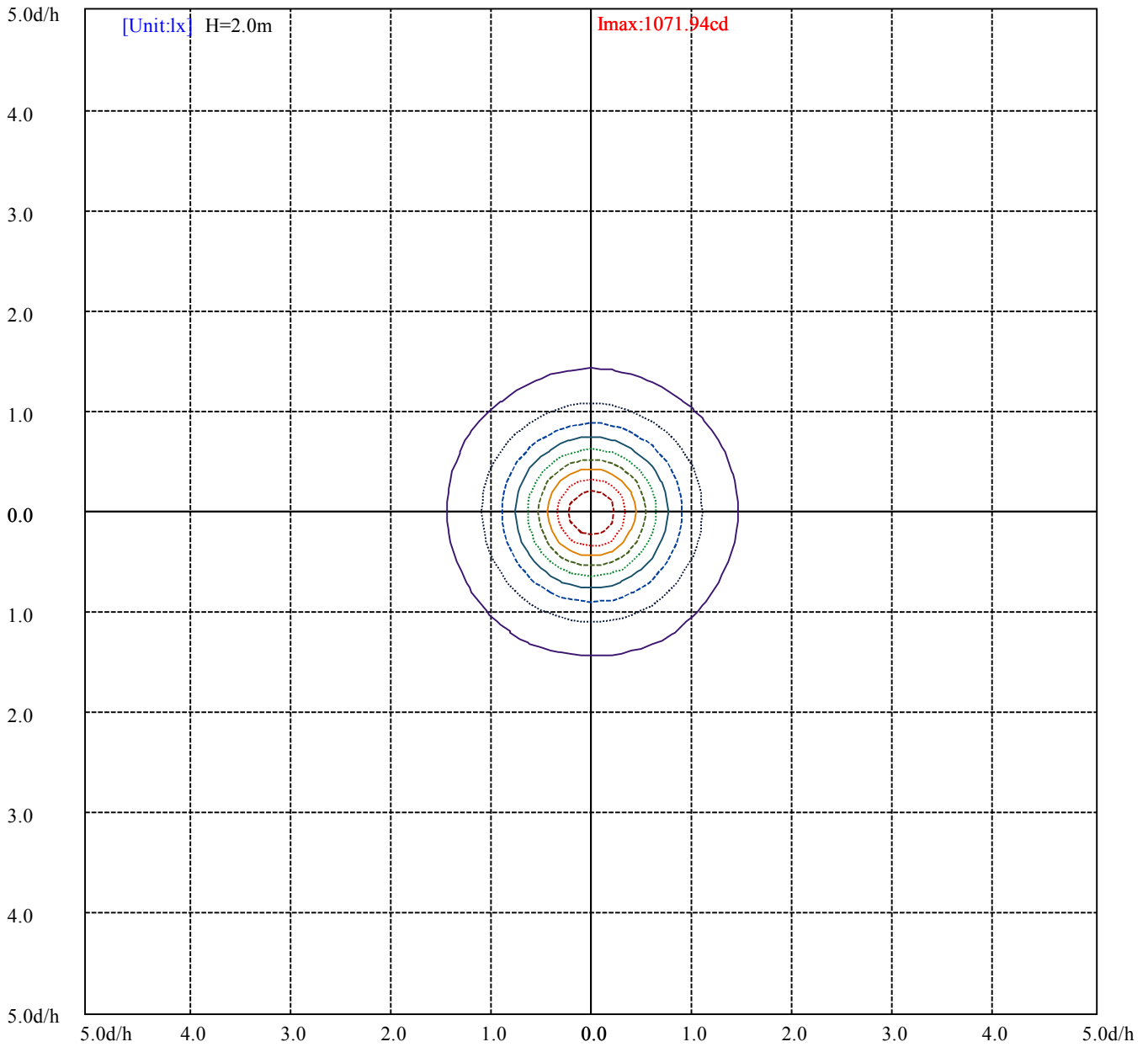


House

Road

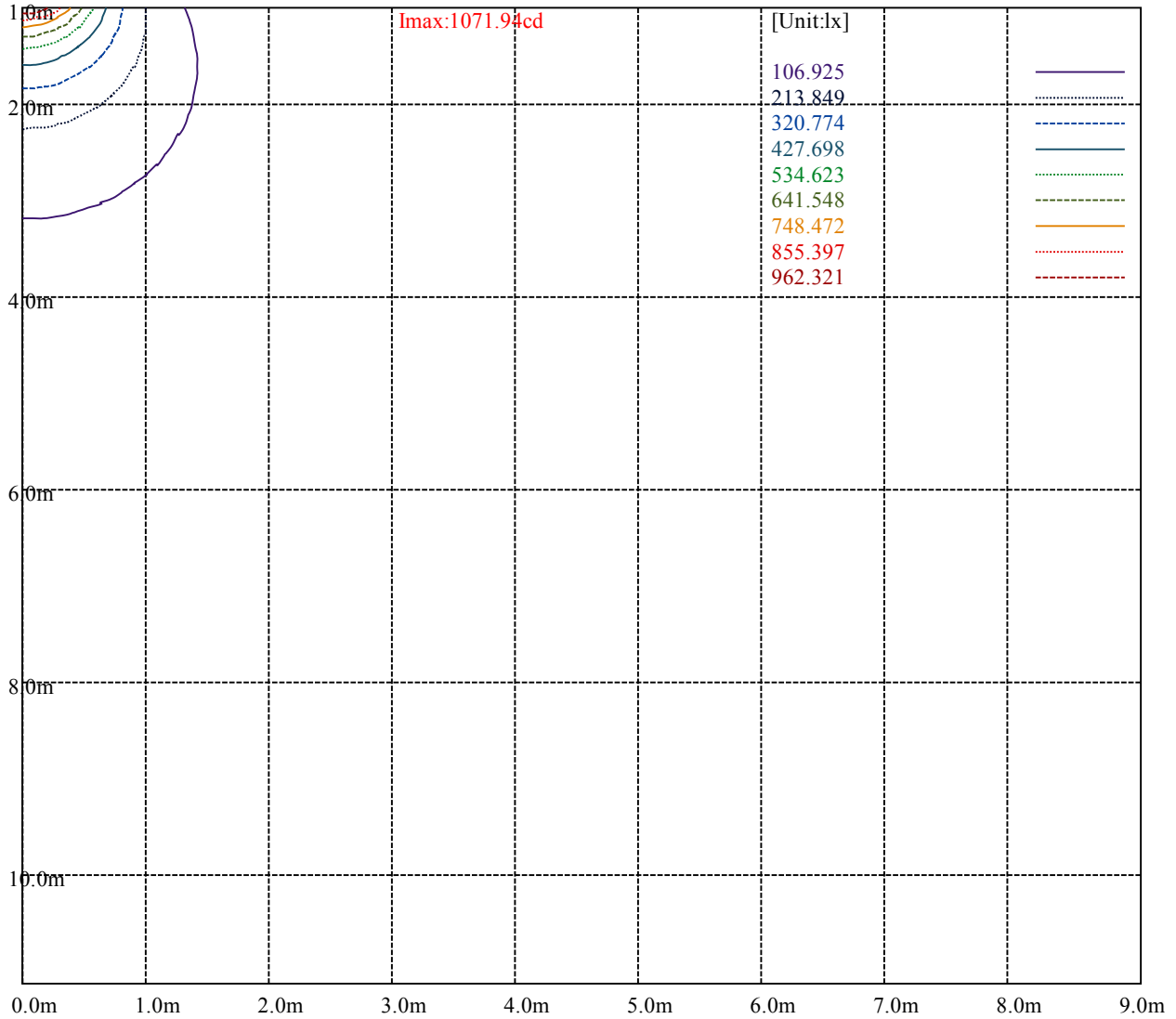
**Imax:1071.94cd**

(10%Imax) 107.194	—
(20%Imax) 214.387	---
(30%Imax) 321.581	- - - -
(40%Imax) 428.775	—
(50%Imax) 535.969	---
(60%Imax) 643.162	- - - -
(70%Imax) 750.356	—
(80%Imax) 857.55	---
(90%Imax) 964.743	- - - -



(10%Emax) 26.78425	———
(20%Emax) 53.56825	.....
(30%Emax) 80.3525	- - - - -
(40%Emax) 107.1365	———
(50%Emax) 133.9207	.....
(60%Emax) 160.7047	- - - - -
(70%Emax) 187.489	———
(80%Emax) 214.2733	.....
(90%Emax) 241.0573	- - - - -



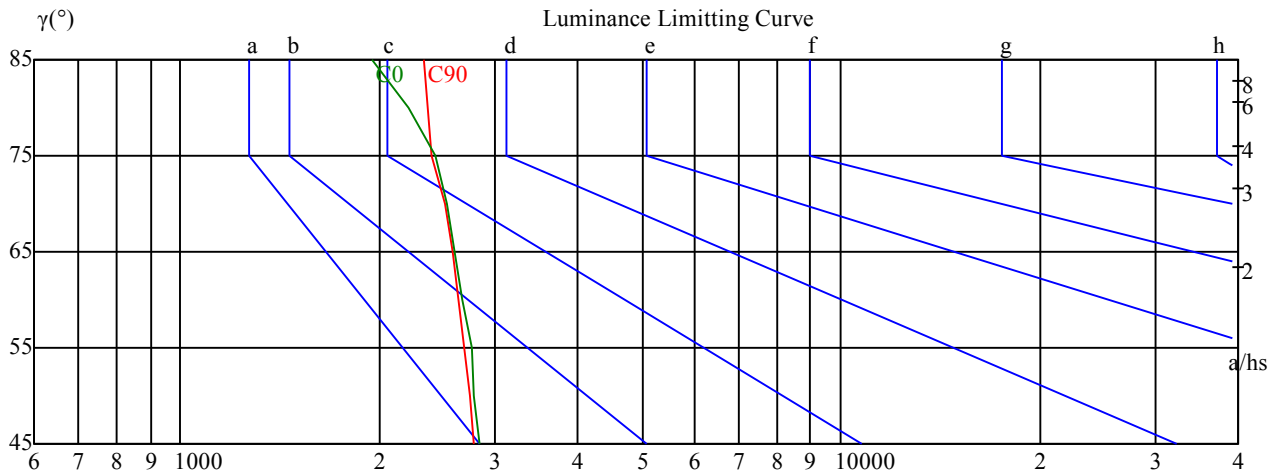


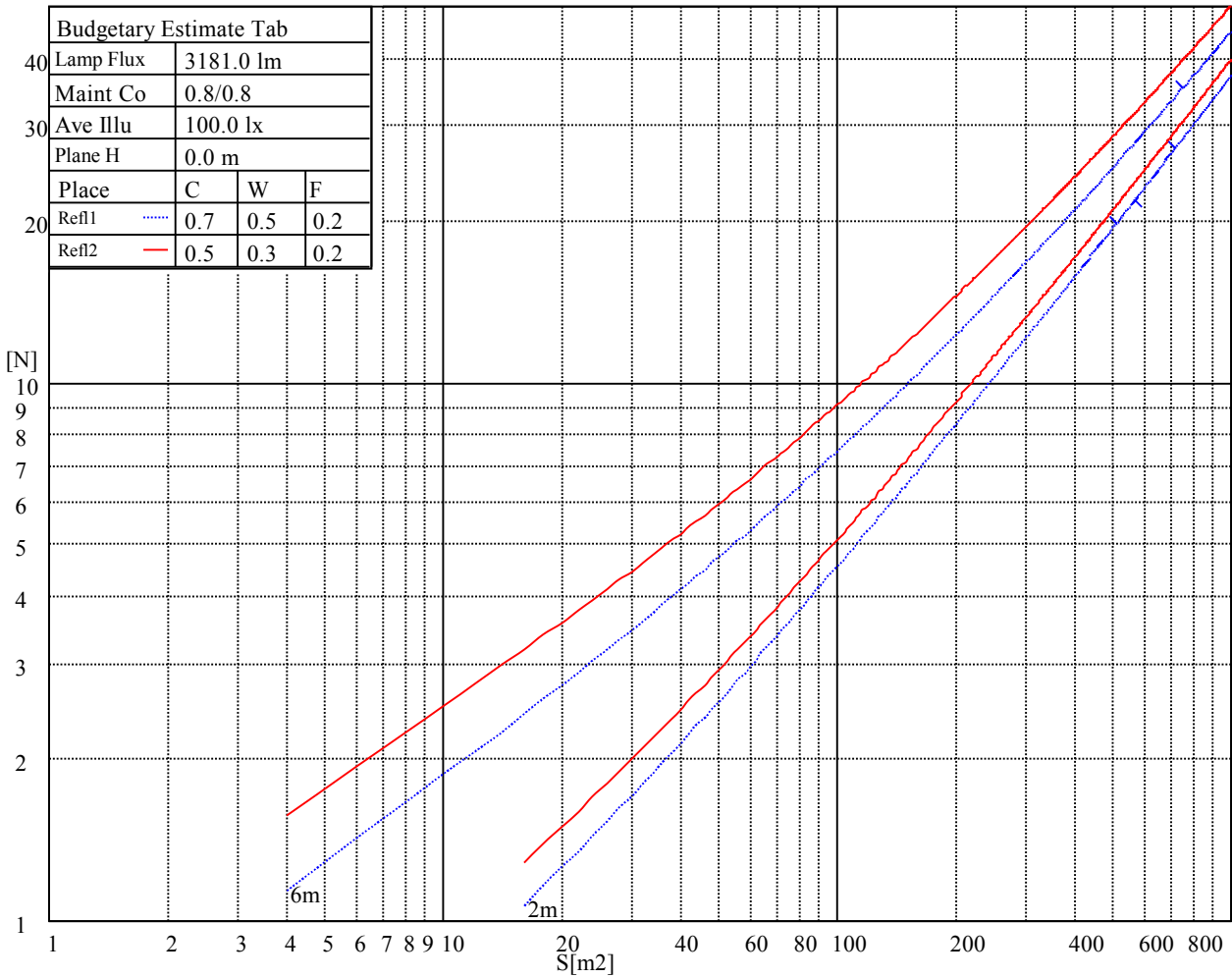
Luminance Table

$\gamma$	45	50	55	60	65	70	75	80	85
C0	2830	2789	2759	2677	2600	2541	2428	2217	1951
C45	0	0	0	0	0	0	0	0	0
C90	2777	2741	2697	2628	2593	2524	2403	2368	2336

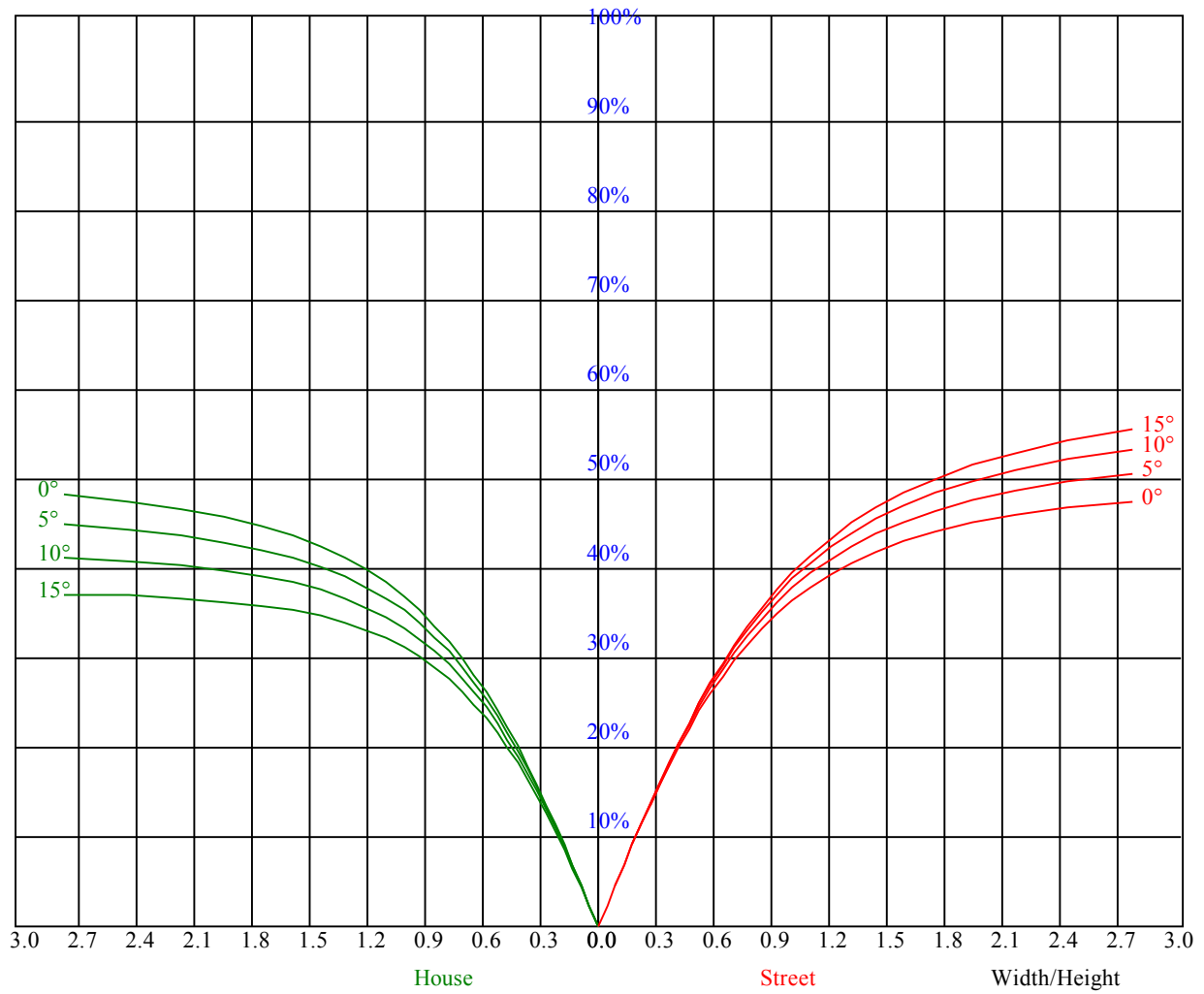
Glare Table

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





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	0.96	0.93	0.90	0.92	0.90	0.87	0.89	0.86	0.84	0.82
2	0.90	0.83	0.77	0.88	0.81	0.76	0.84	0.78	0.74	0.81	0.76	0.72	0.77	0.74	0.70	0.68
3	0.78	0.70	0.63	0.77	0.69	0.63	0.74	0.67	0.62	0.71	0.65	0.60	0.68	0.63	0.59	0.57
4	0.69	0.60	0.53	0.68	0.60	0.53	0.65	0.58	0.52	0.63	0.57	0.51	0.61	0.55	0.51	0.48
5	0.62	0.53	0.46	0.61	0.52	0.46	0.58	0.51	0.45	0.56	0.50	0.45	0.54	0.49	0.44	0.42
6	0.56	0.47	0.40	0.55	0.46	0.40	0.53	0.45	0.39	0.51	0.44	0.39	0.49	0.43	0.39	0.36
7	0.50	0.41	0.35	0.50	0.41	0.35	0.48	0.40	0.35	0.46	0.40	0.34	0.45	0.39	0.34	0.32
8	0.46	0.37	0.31	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	0.25	0.37	0.30	0.25	0.36	0.30	0.25	0.35	0.29	0.25	0.23



55170 LED 1 X 4 PANEL- 35W 40K

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	1069.25	1066.96	1056.12	1036.06	1007.36	969.85	923.37	872.00	811.90
30.0	1071.94	1068.10	1055.71	1034.18	1003.85	969.03	920.19	866.78	806.60
60.0	1070.80	1063.70	1045.76	1020.24	989.17	944.24	895.32	844.03	777.33
90.0	1069.41	1062.32	1044.95	1020.08	986.56	948.57	896.62	841.34	779.53
120.0	1069.25	1058.81	1040.14	1012.98	979.88	935.03	884.80	830.58	764.85
150.0	1069.57	1062.72	1046.74	1022.12	989.83	949.14	900.86	845.66	783.93
180.0	1069.90	1064.03	1046.82	1022.69	992.27	949.79	901.03	847.78	782.79
210.0	1071.94	1066.39	1052.12	1028.39	996.27	953.78	907.31	847.62	783.77
240.0	1070.31	1068.68	1057.50	1036.79	1009.15	971.64	921.49	871.10	809.29
270.0	1069.41	1067.94	1056.61	1036.06	1006.38	963.24	920.84	865.64	797.88
300.0	1068.51	1068.68	1060.11	1041.52	1017.22	978.25	931.93	880.56	819.89
330.0	1069.57	1067.29	1056.04	1035.16	1004.99	966.99	922.06	868.08	803.26
360.0	1069.25	1066.96	1056.12	1036.06	1007.36	969.85	923.37	872.00	811.90
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	742.02	668.55	594.03	506.86	421.08	338.64	251.55	162.19	82.19
30.0	735.91	667.58	590.19	503.84	424.50	338.48	247.80	164.71	90.59
60.0	709.32	636.02	554.56	477.18	393.84	304.88	226.03	145.55	66.78
90.0	712.26	639.85	562.96	479.22	400.77	317.19	230.19	154.36	79.58
120.0	696.44	622.57	544.61	463.48	380.23	296.40	213.72	134.38	57.32
150.0	716.09	643.03	565.32	478.73	400.20	315.24	226.11	149.71	73.71
180.0	713.73	639.20	554.64	477.01	391.56	300.15	220.00	137.72	56.75
210.0	713.32	641.73	556.11	471.47	390.01	297.22	211.03	128.18	51.53
240.0	735.50	660.32	585.38	495.77	408.93	326.41	239.24	150.20	71.92
270.0	727.75	657.14	570.46	485.41	403.46	310.10	223.42	140.17	63.28
300.0	749.20	674.59	603.48	510.20	423.12	339.54	251.80	162.27	82.60
330.0	734.36	663.66	578.94	494.55	412.76	319.23	231.90	147.34	68.33
360.0	742.02	668.55	594.03	506.86	421.08	338.64	251.55	162.19	82.19
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	13.78	1.22	1.39	1.63	1.88	2.20	2.53	2.85	3.18
30.0	16.47	1.14	1.31	1.55	1.79	2.12	2.45	2.77	3.10
60.0	3.51	1.14	1.31	1.55	1.79	2.12	2.53	2.94	3.18
90.0	11.17	1.06	1.31	1.55	1.79	2.12	2.53	2.85	3.18
120.0	1.55	1.14	1.39	1.63	1.88	2.20	2.61	2.94	3.26
150.0	7.01	1.22	1.39	1.63	1.88	2.20	2.53	2.94	3.26
180.0	1.31	1.31	1.47	1.71	1.96	2.28	2.61	3.02	3.34
210.0	1.14	1.22	1.47	1.71	2.04	2.37	2.69	3.02	3.34
240.0	1.06	1.14	1.31	1.63	1.88	2.20	2.53	2.85	3.18
270.0	1.06	1.14	1.39	1.55	1.88	2.20	2.53	2.85	3.18
300.0	9.54	1.14	1.31	1.55	1.88	2.12	2.45	2.77	3.10
330.0	4.16	1.14	1.39	1.63	1.88	2.20	2.53	2.85	3.18
360.0	13.78	1.22	1.39	1.63	1.88	2.20	2.53	2.85	3.18
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	3.51	3.83	4.08	4.40	4.65	4.81	4.89	4.97	5.06
30.0	3.43	3.75	4.00	4.32	4.49	4.73	4.89	4.97	5.14
60.0	3.51	3.83	4.08	4.32	4.57	4.81	4.97	5.06	5.14
90.0	3.51	3.83	4.08	4.40	4.65	4.89	5.06	5.22	5.22
120.0	3.59	3.91	4.24	4.49	4.73	4.89	5.06	5.14	5.14
150.0	3.59	3.91	4.16	4.40	4.65	4.81	4.97	5.06	5.06
180.0	3.59	3.91	4.24	4.40	4.65	4.81	4.97	5.06	5.06
210.0	3.59	4.00	4.24	4.57	4.73	4.89	4.97	5.06	5.06
240.0	3.51	3.83	4.08	4.40	4.73	4.89	4.97	5.06	5.14
270.0	3.51	3.83	4.16	4.40	4.73	4.89	5.06	5.14	5.22
300.0	3.34	3.67	4.00	4.32	4.49	4.73	4.89	4.97	5.14
330.0	3.43	3.75	4.00	4.32	4.57	4.73	4.89	4.97	5.06
360.0	3.51	3.83	4.08	4.40	4.65	4.81	4.89	4.97	5.06

Intensity data(cd)

C/γ(°)	180.0
0.0	5.06
30.0	5.14
60.0	5.14
90.0	5.22
120.0	5.14
150.0	5.06
180.0	5.06
210.0	5.14
240.0	5.14
270.0	5.22
300.0	5.14
330.0	5.06
360.0	5.06