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TroyCSL Lighting

Client:

LumCAT: B5117-PBR

Luminaire:

Report No: BSR202203030101-9

Ballast type:

Test No: BSR202203030101-9

Voltage(V): 120.000

LampCAT: GU10 8W

Current(A): 0.057

Lamp flux(lm)

Power (W): 6.384

Number of Lamps: 1

PF: 1.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 504.11, Luminous Efficacy(lm/W): 78.96

Central intensity(cd): 595.691, Maximum intensity(cd): 651.525

Angle of maximum intensity: $C=337.5$ $\gamma=15.0$

Beam Angle(50%Imax): [C0/180]Total=42.6

[C90/270]Total=34.4

Field angle(10%Imax): [C0/180]Total=105.1

[C90/270]Total=105.0

Maximum s/h(1/2): C0_180=0.62 C90_270=0.50

Maximum s/h(1/4): C0_180=0.82 C90_270=31.77

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 93.181%

TroyCSL Lighting B5117-PBR

Zonal flux distribution table

Appendix Page: 2 Total:21

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	595.691	0.000	0	0.00%	0.00%
1.0	594.493	0.569	0.569	0.11%	0.11%
2.0	592.654	1.704	2.273	0.34%	0.45%
3.0	588.861	2.826	5.099	0.56%	1.01%
4.0	583.536	3.924	9.024	0.78%	1.79%
5.0	577.598	4.995	14.019	0.99%	2.78%
6.0	568.829	6.025	20.043	1.20%	3.98%
7.0	558.635	6.998	27.042	1.39%	5.36%
8.0	545.888	7.905	34.947	1.57%	6.93%
9.0	535.416	8.763	43.71	1.74%	8.67%
10.0	520.189	9.553	53.263	1.89%	10.57%
11.0	498.866	10.182	63.445	2.02%	12.59%
12.0	470.871	10.601	74.046	2.10%	14.69%
13.0	448.508	10.911	84.957	2.16%	16.85%
14.0	424.426	11.173	96.13	2.22%	19.07%
15.0	389.224	11.170	107.3	2.22%	21.29%
16.0	361.164	10.995	118.295	2.18%	23.47%
17.0	329.854	10.761	129.056	2.13%	25.60%
18.0	301.053	10.402	139.459	2.06%	27.66%
19.0	268.881	9.916	149.374	1.97%	29.63%
20.0	248.834	9.476	158.85	1.88%	31.51%
21.0	231.889	9.231	168.081	1.83%	33.34%
22.0	221.167	9.104	177.185	1.81%	35.15%
23.0	216.640	9.186	186.372	1.82%	36.97%
24.0	211.408	9.359	195.73	1.86%	38.83%
25.0	210.581	9.595	205.325	1.90%	40.73%
26.0	208.820	9.900	215.225	1.96%	42.69%
27.0	205.861	10.145	225.371	2.01%	44.71%
28.0	204.571	10.391	235.762	2.06%	46.77%
29.0	198.412	10.543	246.305	2.09%	48.86%
30.0	193.364	10.578	256.883	2.10%	50.96%
31.0	187.604	10.602	267.485	2.10%	53.06%
32.0	176.455	10.430	277.915	2.07%	55.13%
33.0	166.139	10.093	288.008	2.00%	57.13%
34.0	158.240	9.817	297.824	1.95%	59.08%
35.0	153.293	9.675	307.499	1.92%	61.00%
36.0	147.361	9.573	317.072	1.90%	62.90%
37.0	137.923	9.304	326.377	1.85%	64.74%

Equipment: GMS1800
Temperature($^{\circ}\text{C}$): 25.0

Date: 2022/3/2
Humidity(%): 59.0%

Operator: 01
Distance(m): 10.68

TroyCSL Lighting B5117-PBR

Zonal flux distribution table

Appendix Page: 3 Total:21

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	131.108	8.980	335.356	1.78%	66.52%
39.0	126.460	8.791	344.148	1.74%	68.27%
40.0	121.042	8.632	352.78	1.71%	69.98%
41.0	114.626	8.392	361.172	1.66%	71.65%
42.0	107.974	8.087	369.259	1.60%	73.25%
43.0	103.212	7.823	377.082	1.55%	74.80%
44.0	98.414	7.610	384.692	1.51%	76.31%
45.0	92.084	7.321	392.013	1.45%	77.76%
46.0	87.065	7.006	399.019	1.39%	79.15%
47.0	81.740	6.714	405.733	1.33%	80.48%
48.0	77.812	6.450	412.183	1.28%	81.76%
49.0	73.620	6.219	418.402	1.23%	83.00%
50.0	68.487	5.925	424.327	1.18%	84.17%
51.0	62.749	5.552	429.879	1.10%	85.27%
52.0	58.870	5.219	435.098	1.04%	86.31%
53.0	55.114	4.958	440.056	0.98%	87.29%
54.0	50.893	4.672	444.729	0.93%	88.22%
55.0	46.830	4.362	449.091	0.87%	89.09%
56.0	44.042	4.106	453.197	0.81%	89.90%
57.0	41.733	3.922	457.119	0.78%	90.68%
58.0	38.952	3.731	460.85	0.74%	91.42%
59.0	36.856	3.544	464.394	0.70%	92.12%
60.0	34.568	3.374	467.768	0.67%	92.79%
61.0	32.829	3.216	470.985	0.64%	93.43%
62.0	31.274	3.089	474.074	0.61%	94.04%
63.0	29.043	2.934	477.007	0.58%	94.62%
64.0	27.211	2.760	479.767	0.55%	95.17%
65.0	25.657	2.616	482.384	0.52%	95.69%
66.0	24.103	2.483	484.867	0.49%	96.18%
67.0	22.142	2.325	487.192	0.46%	96.64%
68.0	19.975	2.134	489.325	0.42%	97.07%
69.0	18.278	1.952	491.277	0.39%	97.45%
70.0	16.710	1.797	493.074	0.36%	97.81%
71.0	14.408	1.608	494.682	0.32%	98.13%
72.0	12.240	1.386	496.068	0.27%	98.40%
73.0	10.137	1.170	497.238	0.23%	98.64%
74.0	8.719	0.991	498.229	0.20%	98.83%
75.0	7.300	0.846	499.076	0.17%	99.00%

Equipment: GMS1800
Temperature($^{\circ}\text{C}$): 25.0

Date: 2022/3/2
Humidity(%): 59.0%

Operator: 01
Distance(m): 10.68

TroyCSL Lighting B5117-PBR

Zonal flux distribution table

Appendix Page: 4 Total:21

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	5.746	0.693	499.768	0.14%	99.14%
77.0	4.641	0.554	500.322	0.11%	99.25%
78.0	3.942	0.459	500.781	0.09%	99.34%
79.0	3.479	0.399	501.18	0.08%	99.42%
80.0	3.101	0.355	501.535	0.07%	99.49%
81.0	2.852	0.322	501.857	0.06%	99.55%
82.0	2.702	0.301	502.158	0.06%	99.61%
83.0	2.595	0.288	502.446	0.06%	99.67%
84.0	2.502	0.278	502.724	0.06%	99.72%
85.0	2.417	0.268	502.992	0.05%	99.78%
86.0	2.331	0.260	503.252	0.05%	99.83%
87.0	2.281	0.252	503.504	0.05%	99.88%
88.0	2.238	0.248	503.752	0.05%	99.93%
89.0	2.160	0.241	503.993	0.05%	99.98%
90.0	0.000	0.118	504.111	0.02%	100.00%
91.0	0.000	0.000	504.111	0.00%	100.00%
92.0	0.000	0.000	504.111	0.00%	100.00%
93.0	0.000	0.000	504.111	0.00%	100.00%
94.0	0.000	0.000	504.111	0.00%	100.00%
95.0	0.000	0.000	504.111	0.00%	100.00%
96.0	0.000	0.000	504.111	0.00%	100.00%
97.0	0.000	0.000	504.111	0.00%	100.00%
98.0	0.000	0.000	504.111	0.00%	100.00%
99.0	0.000	0.000	504.111	0.00%	100.00%
100.0	0.000	0.000	504.111	0.00%	100.00%
101.0	0.000	0.000	504.111	0.00%	100.00%
102.0	0.000	0.000	504.111	0.00%	100.00%
103.0	0.000	0.000	504.111	0.00%	100.00%
104.0	0.000	0.000	504.111	0.00%	100.00%
105.0	0.000	0.000	504.111	0.00%	100.00%
106.0	0.000	0.000	504.111	0.00%	100.00%
107.0	0.000	0.000	504.111	0.00%	100.00%
108.0	0.000	0.000	504.111	0.00%	100.00%
109.0	0.000	0.000	504.111	0.00%	100.00%
110.0	0.000	0.000	504.111	0.00%	100.00%
111.0	0.000	0.000	504.111	0.00%	100.00%
112.0	0.000	0.000	504.111	0.00%	100.00%
113.0	0.000	0.000	504.111	0.00%	100.00%

Equipment: GMS1800
Temperature($^{\circ}\text{C}$): 25.0

Date: 2022/3/2
Humidity(%): 59.0%

Operator: 01
Distance(m): 10.68

TroyCSL Lighting B5117-PBR

Zonal flux distribution table

Appendix Page: 5 Total:21

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
114.0	0.000	0.000	504.111	0.00%	100.00%
115.0	0.000	0.000	504.111	0.00%	100.00%
116.0	0.000	0.000	504.111	0.00%	100.00%
117.0	0.000	0.000	504.111	0.00%	100.00%
118.0	0.000	0.000	504.111	0.00%	100.00%
119.0	0.000	0.000	504.111	0.00%	100.00%
120.0	0.000	0.000	504.111	0.00%	100.00%
121.0	0.000	0.000	504.111	0.00%	100.00%
122.0	0.000	0.000	504.111	0.00%	100.00%
123.0	0.000	0.000	504.111	0.00%	100.00%
124.0	0.000	0.000	504.111	0.00%	100.00%
125.0	0.000	0.000	504.111	0.00%	100.00%
126.0	0.000	0.000	504.111	0.00%	100.00%
127.0	0.000	0.000	504.111	0.00%	100.00%
128.0	0.000	0.000	504.111	0.00%	100.00%
129.0	0.000	0.000	504.111	0.00%	100.00%
130.0	0.000	0.000	504.111	0.00%	100.00%
131.0	0.000	0.000	504.111	0.00%	100.00%
132.0	0.000	0.000	504.111	0.00%	100.00%
133.0	0.000	0.000	504.111	0.00%	100.00%
134.0	0.000	0.000	504.111	0.00%	100.00%
135.0	0.000	0.000	504.111	0.00%	100.00%
136.0	0.000	0.000	504.111	0.00%	100.00%
137.0	0.000	0.000	504.111	0.00%	100.00%
138.0	0.000	0.000	504.111	0.00%	100.00%
139.0	0.000	0.000	504.111	0.00%	100.00%
140.0	0.000	0.000	504.111	0.00%	100.00%
141.0	0.000	0.000	504.111	0.00%	100.00%
142.0	0.000	0.000	504.111	0.00%	100.00%
143.0	0.000	0.000	504.111	0.00%	100.00%
144.0	0.000	0.000	504.111	0.00%	100.00%
145.0	0.000	0.000	504.111	0.00%	100.00%
146.0	0.000	0.000	504.111	0.00%	100.00%
147.0	0.000	0.000	504.111	0.00%	100.00%
148.0	0.000	0.000	504.111	0.00%	100.00%
149.0	0.000	0.000	504.111	0.00%	100.00%
150.0	0.000	0.000	504.111	0.00%	100.00%
151.0	0.000	0.000	504.111	0.00%	100.00%

Equipment: GMS1800
Temperature($^{\circ}\text{C}$): 25.0

Date: 2022/3/2
Humidity(%): 59.0%

Operator: 01
Distance(m): 10.68

TroyCSL Lighting B5117-PBR

Zonal flux distribution table

Appendix Page: 6 Total:21

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
152.0	0.000	0.000	504.111	0.00%	100.00%
153.0	0.000	0.000	504.111	0.00%	100.00%
154.0	0.000	0.000	504.111	0.00%	100.00%
155.0	0.000	0.000	504.111	0.00%	100.00%
156.0	0.000	0.000	504.111	0.00%	100.00%
157.0	0.000	0.000	504.111	0.00%	100.00%
158.0	0.000	0.000	504.111	0.00%	100.00%
159.0	0.000	0.000	504.111	0.00%	100.00%
160.0	0.000	0.000	504.111	0.00%	100.00%
161.0	0.000	0.000	504.111	0.00%	100.00%
162.0	0.000	0.000	504.111	0.00%	100.00%
163.0	0.000	0.000	504.111	0.00%	100.00%
164.0	0.000	0.000	504.111	0.00%	100.00%
165.0	0.000	0.000	504.111	0.00%	100.00%
166.0	0.000	0.000	504.111	0.00%	100.00%
167.0	0.000	0.000	504.111	0.00%	100.00%
168.0	0.000	0.000	504.111	0.00%	100.00%
169.0	0.000	0.000	504.111	0.00%	100.00%
170.0	0.000	0.000	504.111	0.00%	100.00%
171.0	0.000	0.000	504.111	0.00%	100.00%
172.0	0.000	0.000	504.111	0.00%	100.00%
173.0	0.000	0.000	504.111	0.00%	100.00%
174.0	0.000	0.000	504.111	0.00%	100.00%
175.0	0.000	0.000	504.111	0.00%	100.00%
176.0	0.000	0.000	504.111	0.00%	100.00%
177.0	0.000	0.000	504.111	0.00%	100.00%
178.0	0.000	0.000	504.111	0.00%	100.00%
179.0	0.000	0.000	504.111	0.00%	100.00%
180.0	0.000	0.000	504.111	0.00%	100.00%

Equipment: GMS1800
Temperature($^{\circ}\text{C}$): 25.0

Date: 2022/3/2
Humidity(%): 59.0%

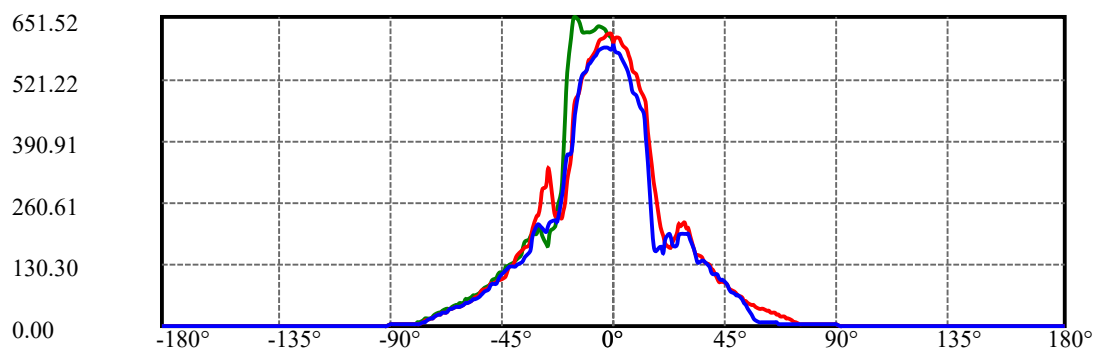
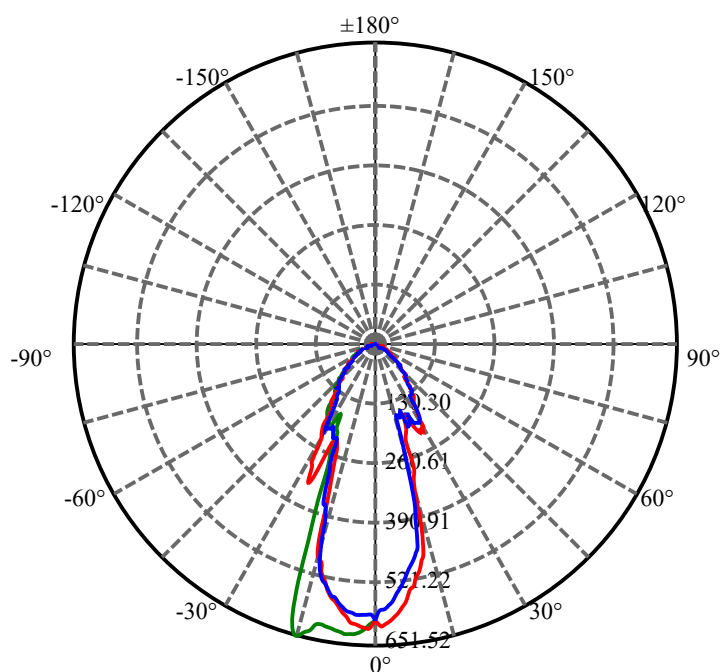
Operator: 01
Distance(m): 10.68

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-30	256.88	50.96%
0-40	352.78	69.98%
0-60	467.77	92.79%
0-90	504.11	100.00%
0-120	504.11	100.00%
0-180	504.11	100.00%
60-90	36.34	7.21%
90-120	0.00	0.00%
90-130	0.00	0.00%
90-150	0.00	0.00%
90-180	0.00	0.00%
0-46.64	403.29	80.00%

ZONAL LUMEN SUMMARY

0-10	53.26
10-20	105.59
20-30	98.03
30-40	95.90
40-50	71.55
50-60	43.44
60-70	25.31
70-80	8.46
80-90	2.58
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



C337.5(Max): —————

C0/C180: —————

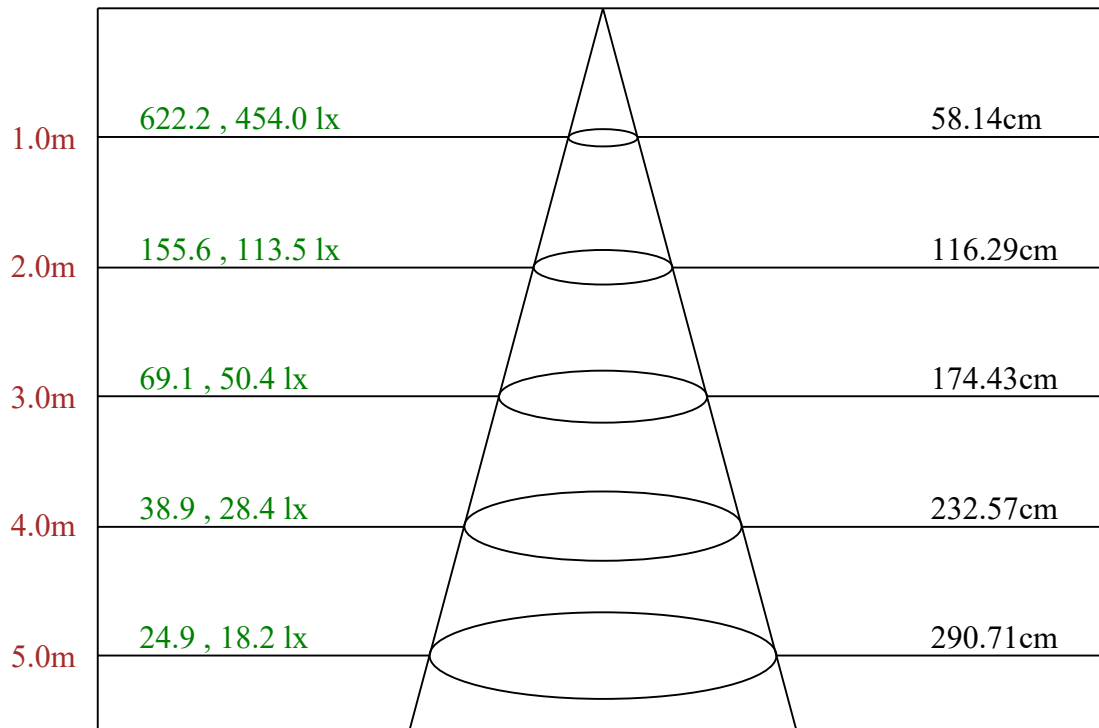
C90/C270: —————

Field angle(10%Imax):C0/180Left:53.6 Right:51.6

:C90/270Left:53.8 Right:50.8

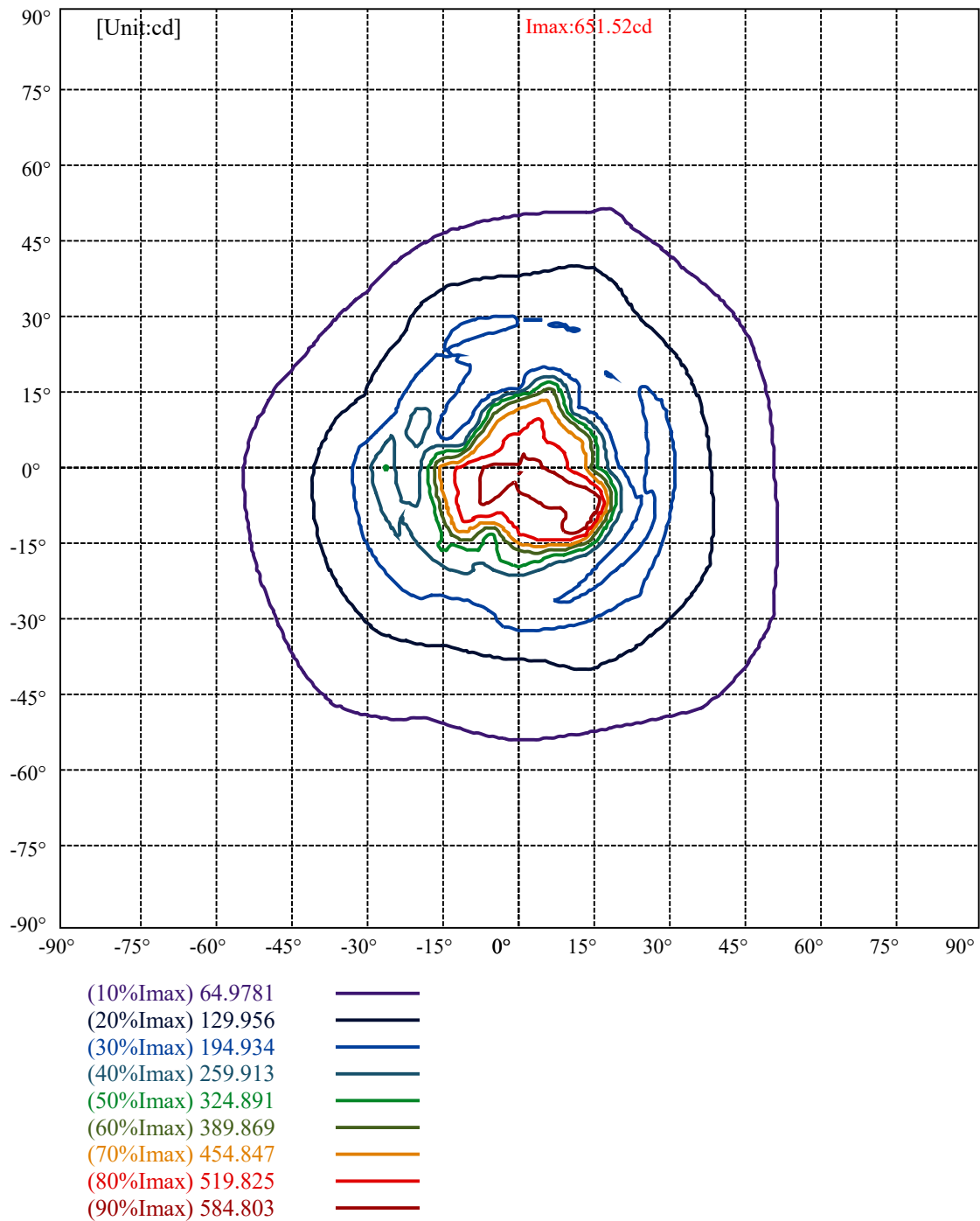
Beam Angle(50%Imax):C0/180Left:25.7 Right:17.0

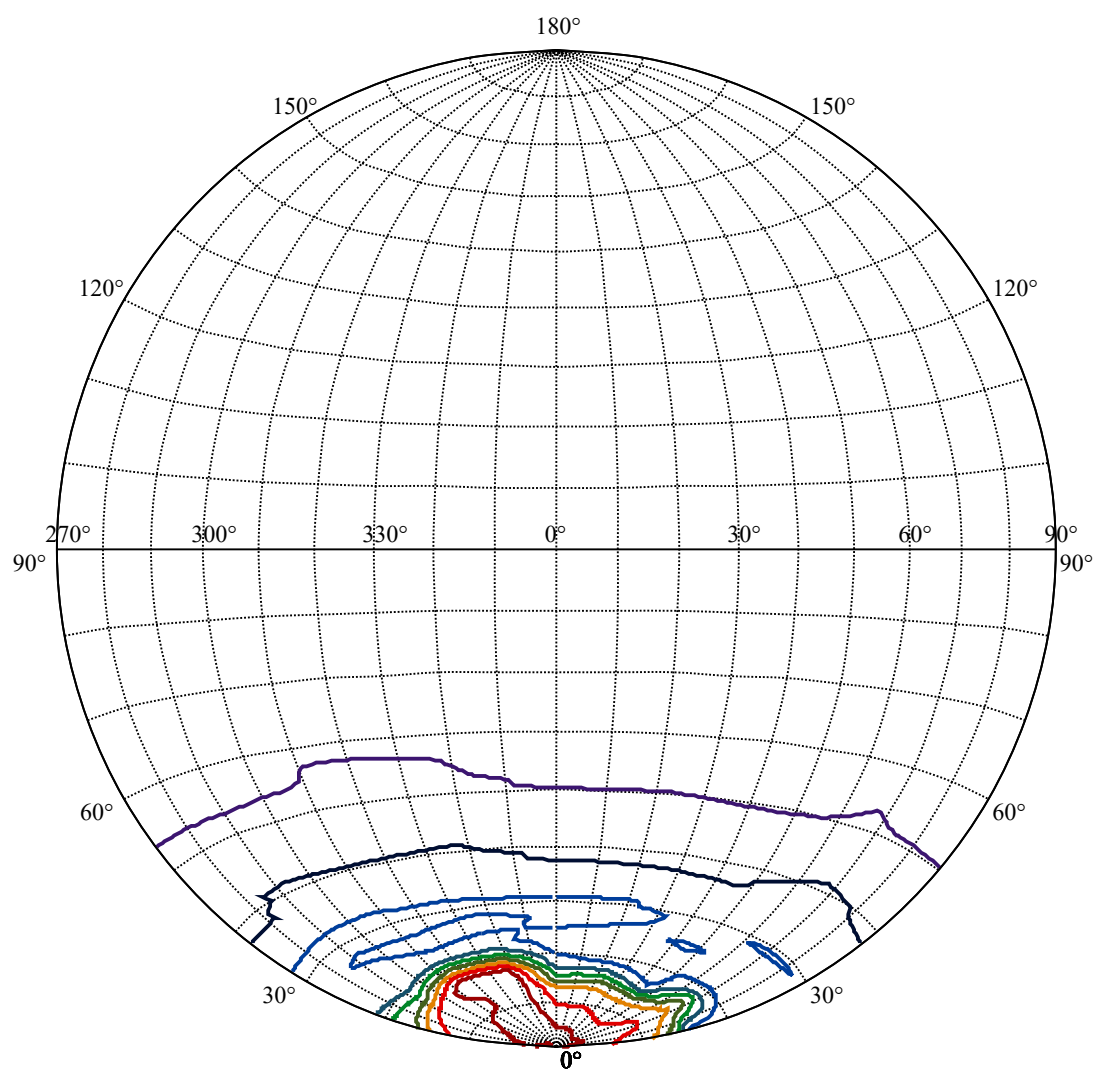
:C90/270Left:20.0 Right:14.4



Max , Ave

Beam angle of C337.5 plane 32.42





House

[Unit:cd]

Road

Imax:651.52

(10%Imax) 65.0734

(20%Imax) 130.147

(30%Imax) 195.22

(40%Imax) 260.293

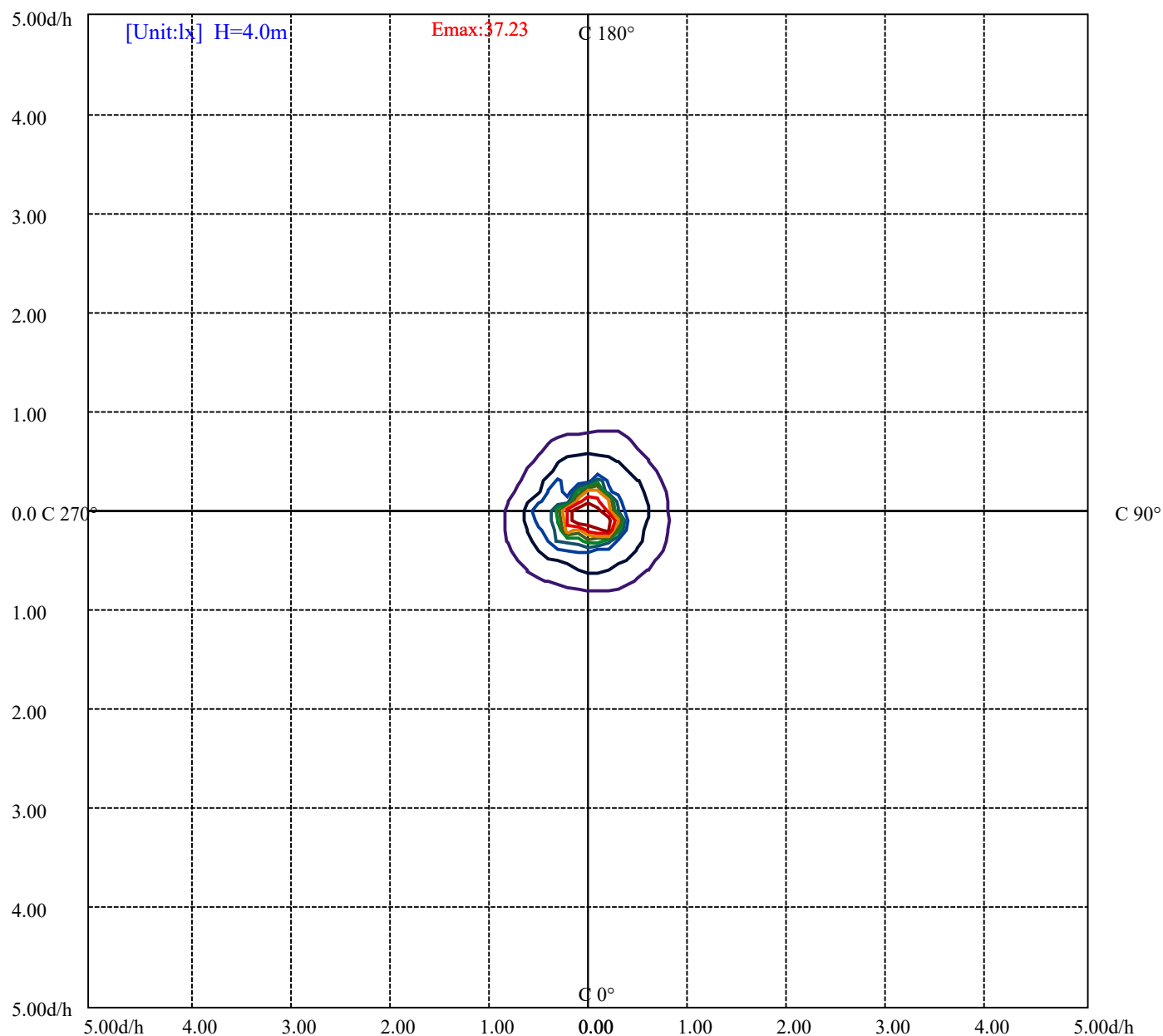
(50%Imax) 325.367

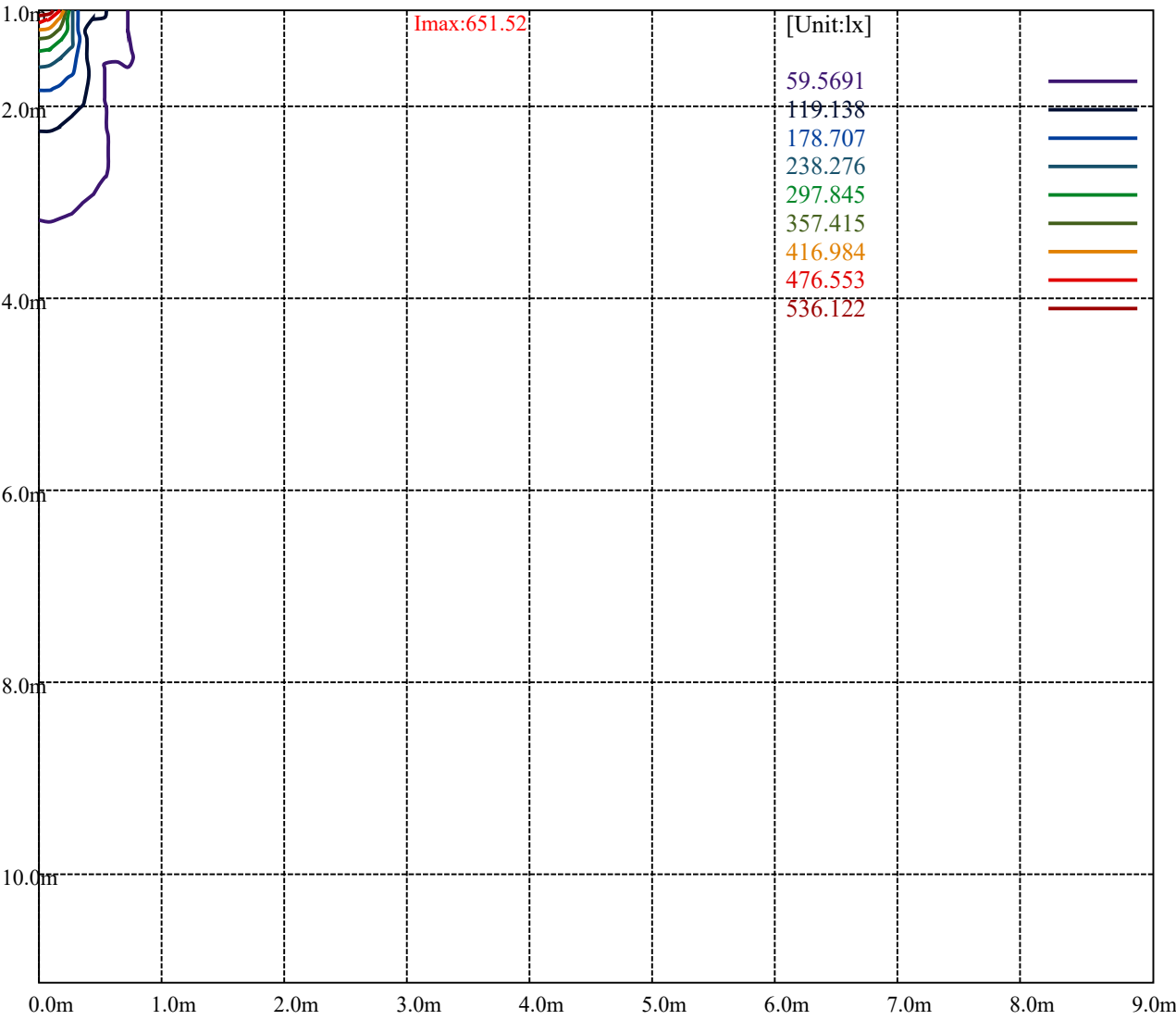
(60%Imax) 390.44

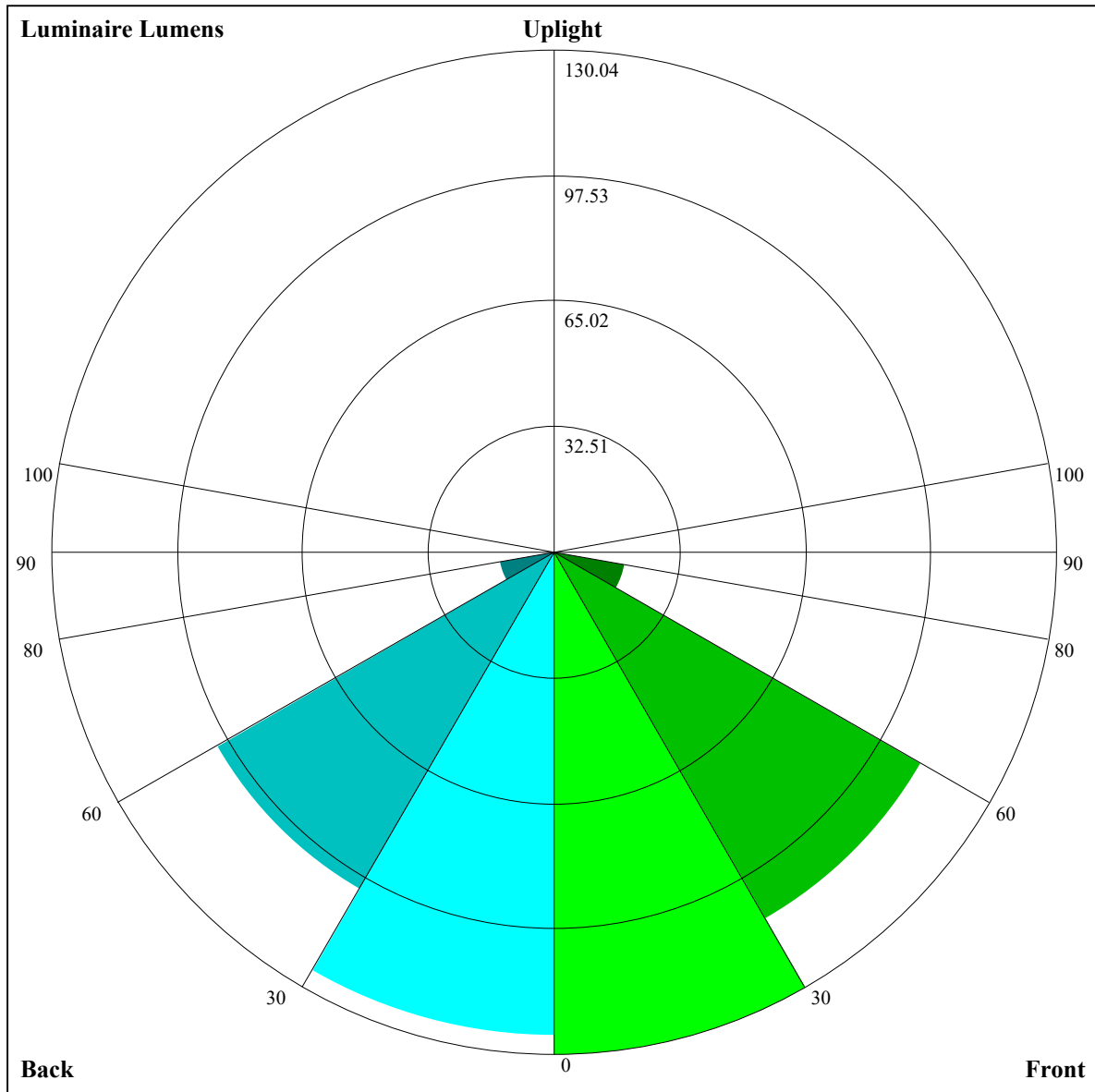
(70%Imax) 455.514

(80%Imax) 520.587

(90%Imax) 585.66







Luminaire Lumens:

FL=130.04,FM=109.47,FH=18.51,FVH=1.25

BL=125.17,BM=100.74,BH=14.68,BVH=1.16

UL=0,UH=0

BUG Rating:B1-U0-G0

TroyCSL Lighting B5117-PBR

Intensity data(cd)									Appendix Page: 15 Total:21
C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	595.69	608.52	605.67	597.46	592.44	581.83	571.91	559.02	538.26
22.5	595.69	610.80	605.56	597.57	586.97	580.69	567.00	553.43	539.74
45.0	595.69	598.03	587.76	576.02	568.14	553.32	539.63	525.14	505.75
67.5	595.69	591.98	590.96	588.22	584.23	581.03	573.62	561.64	550.81
90.0	595.69	576.93	572.82	566.32	557.54	543.51	530.28	513.62	494.80
112.5	595.69	572.71	564.49	557.65	548.41	543.05	528.45	512.37	496.06
135.0	595.69	569.17	558.56	546.36	532.33	518.41	502.56	486.13	463.21
157.5	595.69	585.37	571.22	558.91	543.62	534.84	517.73	501.08	482.60
180.0	595.69	613.54	615.14	612.52	607.04	603.16	592.90	584.46	574.08
202.5	595.69	620.16	619.02	615.71	613.66	608.75	604.64	597.00	584.80
225.0	595.69	614.34	617.19	616.85	617.88	617.08	616.51	613.20	607.61
247.5	595.69	590.04	587.76	584.00	575.44	565.41	553.77	542.59	529.14
270.0	595.69	583.43	586.51	587.54	586.05	584.11	578.87	572.48	564.84
292.5	595.69	583.66	588.11	589.70	589.36	588.11	585.37	581.49	573.96
315.0	595.69	586.97	595.98	602.59	607.15	608.87	607.95	607.04	604.99
337.5	595.69	606.24	615.71	624.38	626.32	629.40	630.08	627.46	623.58
360.0	595.69	608.52	605.67	597.46	592.44	581.83	571.91	559.02	538.26
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	528.45	513.17	497.08	481.23	464.01	408.23	340.25	304.55	277.97
22.5	524.00	513.85	492.52	472.45	464.01	442.79	389.98	330.90	273.18
45.0	494.35	477.81	465.03	451.34	405.38	361.58	264.62	207.25	183.98
67.5	536.55	531.42	508.72	492.52	483.97	468.91	453.85	433.55	382.68
90.0	486.36	473.59	461.50	444.84	390.55	342.53	220.03	168.01	159.12
112.5	480.54	461.15	438.68	381.54	332.26	238.16	201.09	166.87	147.48
135.0	449.41	400.24	315.61	234.63	201.43	181.02	155.47	157.41	160.71
157.5	458.07	405.61	353.94	228.24	212.16	205.88	179.88	180.90	194.59
180.0	564.27	556.51	539.63	524.12	508.15	488.76	473.70	431.50	354.39
202.5	577.16	563.13	549.44	536.44	519.78	512.37	488.42	433.67	391.69
225.0	598.26	590.84	576.02	559.02	551.61	539.40	526.06	509.40	468.34
247.5	521.84	508.60	489.21	447.01	359.52	316.87	280.82	295.08	299.07
270.0	556.40	551.26	537.92	528.79	518.64	493.66	443.36	392.49	362.49
292.5	569.17	560.73	553.66	550.12	549.67	553.09	536.89	484.65	402.87
315.0	600.99	596.66	585.14	581.60	581.72	595.98	621.64	637.95	611.26
337.5	620.84	618.45	617.76	620.04	633.27	641.60	651.52	644.45	607.84
360.0	528.45	513.17	497.08	481.23	464.01	408.23	340.25	304.55	277.97
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	221.05	200.52	191.97	174.17	166.42	165.28	179.76	196.07	213.07
22.5	234.17	188.09	175.43	170.75	161.28	156.95	164.14	174.06	187.40
45.0	162.65	169.61	179.53	173.37	169.04	178.17	188.55	200.64	187.29
67.5	336.71	258.12	220.48	178.39	159.46	170.52	180.10	174.52	165.96
90.0	165.28	164.71	155.47	180.45	193.56	186.15	169.95	171.44	191.17
112.5	149.54	156.84	172.69	185.69	188.89	180.56	172.92	187.52	182.96
135.0	174.86	204.97	221.74	221.62	228.81	236.68	230.18	212.95	202.23
157.5	206.11	238.39	282.65	285.61	273.41	272.04	241.13	219.68	208.28
180.0	308.54	264.62	243.07	227.21	238.16	231.55	246.03	315.50	330.21
202.5	325.65	292.46	268.62	263.37	264.74	270.78	266.56	257.67	264.74
225.0	427.28	354.51	334.09	337.28	326.79	321.43	277.63	237.71	234.06
247.5	301.92	289.72	253.90	247.40	252.88	246.95	231.66	218.54	215.92
270.0	361.92	334.66	296.11	265.08	224.36	220.82	220.71	219.00	210.10
292.5	345.04	294.05	251.74	210.79	207.14	208.39	211.47	204.29	196.53
315.0	560.16	440.62	371.96	301.35	233.26	207.14	197.21	183.41	180.67
337.5	535.98	450.20	361.92	287.67	250.48	212.84	204.51	196.30	170.52
360.0	221.05	200.52	191.97	174.17	166.42	165.28	179.76	196.07	213.07

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Intensity data(cd)										Appendix Page: 16 Total:21	
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0		
0.0	208.85	216.72	207.02	206.45	188.77	161.40	151.25	148.28	145.89		
22.5	197.90	209.08	205.88	195.85	195.62	182.16	163.68	155.24	152.27		
45.0	177.37	175.43	178.28	178.85	171.32	158.32	150.33	149.19	146.34		
67.5	174.74	188.89	199.95	188.20	178.17	175.88	175.77	177.94	173.49		
90.0	193.22	193.91	194.48	193.45	184.10	163.34	145.77	134.94	135.62		
112.5	197.67	216.15	215.69	198.92	173.15	140.75	139.61	144.06	149.42		
135.0	194.82	167.79	147.03	142.81	140.98	142.69	136.08	127.86	124.67		
157.5	175.88	151.25	139.27	134.48	134.14	134.48	130.37	125.92	120.56		
180.0	297.25	287.55	255.96	233.60	229.27	207.71	184.78	168.47	164.14		
202.5	268.16	254.59	220.03	215.12	208.51	203.26	195.39	182.04	178.39		
225.0	242.38	228.24	216.26	212.27	213.75	201.09	190.03	172.35	160.37		
247.5	207.25	192.77	177.82	167.22	162.77	162.08	160.60	149.99	143.38		
270.0	200.18	205.88	209.65	212.61	211.13	190.71	160.14	154.90	147.37		
292.5	190.94	195.05	199.15	203.15	213.52	209.30	188.77	160.14	150.45		
315.0	192.77	201.66	203.72	205.54	200.75	197.33	196.30	196.64	182.04		
337.5	174.40	188.20	204.40	205.31	195.73	192.77	189.34	183.87	178.28		
360.0	208.85	216.72	207.02	206.45	188.77	161.40	151.25	148.28	145.89		
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0		
0.0	139.16	133.00	127.64	121.93	117.71	103.11	94.56	94.33	93.99		
22.5	148.97	134.37	123.19	118.74	113.26	105.96	97.18	93.07	91.25		
45.0	142.35	127.18	120.34	112.81	107.79	93.87	90.34	86.23	80.41		
67.5	166.76	149.54	149.08	147.60	143.49	133.68	123.42	114.18	109.16		
90.0	137.10	132.31	126.84	114.52	110.18	108.36	99.35	98.55	95.93		
112.5	148.62	141.55	125.24	118.28	109.27	99.12	90.79	86.35	83.27		
135.0	119.99	113.95	107.33	99.46	94.44	87.49	80.30	75.40	66.50		
157.5	115.20	111.78	98.21	92.96	84.06	81.67	79.50	75.51	72.20		
180.0	162.88	156.49	148.85	141.32	130.94	125.01	116.34	106.65	102.31		
202.5	170.64	160.94	155.47	150.45	145.20	135.05	122.27	115.77	109.39		
225.0	153.64	152.96	147.03	146.80	137.67	132.20	128.21	122.96	118.97		
247.5	134.94	130.49	126.38	119.99	115.09	111.32	104.60	103.11	100.60		
270.0	138.70	132.43	127.75	126.72	125.13	123.87	120.79	117.60	113.04		
292.5	142.69	137.67	133.80	134.37	132.08	132.77	126.72	115.43	105.85		
315.0	169.72	140.64	140.18	138.59	135.73	129.23	126.27	121.36	116.46		
337.5	166.42	151.47	140.41	138.81	134.59	131.29	126.95	124.90	115.32		
360.0	139.16	133.00	127.64	121.93	117.71	103.11	94.56	94.33	93.99		
C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0		
0.0	88.63	82.70	75.62	73.23	69.46	64.67	59.20	53.50	50.87		
22.5	84.06	78.59	75.28	72.32	71.75	68.10	60.34	57.03	52.92		
45.0	76.88	71.40	68.67	67.98	65.13	59.20	53.50	49.50	47.22		
67.5	96.72	93.87	88.06	80.87	77.22	71.86	68.89	68.32	65.47		
90.0	89.77	82.35	73.80	70.38	66.61	62.96	55.55	47.45	43.69		
112.5	77.90	73.00	67.52	62.96	59.54	50.64	33.31	24.52	15.28		
135.0	61.94	55.78	45.74	38.32	24.07	16.54	13.46	11.41	10.72		
157.5	67.98	66.38	62.39	56.23	54.18	50.30	45.17	41.52	34.33		
180.0	99.01	95.81	92.96	90.68	87.71	82.01	78.02	76.31	71.52		
202.5	102.09	98.78	92.96	90.11	85.20	81.10	77.45	72.66	69.92		
225.0	112.81	104.37	100.72	97.75	96.38	92.05	85.77	81.55	77.68		
247.5	95.01	89.54	83.84	81.67	75.85	71.52	66.16	61.94	60.34		
270.0	103.91	95.93	90.57	87.14	85.32	78.02	72.77	70.03	66.61		
292.5	96.61	91.59	86.69	84.18	79.73	75.40	71.29	67.64	65.81		
315.0	108.47	105.62	102.09	95.58	91.02	87.83	83.95	82.58	77.11		
337.5	111.55	107.33	100.95	95.58	88.74	83.61	79.16	75.97	72.32		
360.0	88.63	82.70	75.62	73.23	69.46	64.67	59.20	53.50	50.87		

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Intensity data(cd)										Appendix Page: 17 Total:21	
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0		
0.0	48.36	44.26	42.89	39.69	37.75	36.39	35.25	34.33	32.05		
22.5	50.87	46.31	43.00	41.52	38.55	36.27	34.90	32.51	31.37		
45.0	44.37	41.86	40.38	37.98	36.04	34.10	30.91	29.54	27.26		
67.5	60.11	53.84	50.53	48.82	45.17	42.77	41.40	38.78	37.64		
90.0	35.25	23.95	14.60	11.75	9.92	8.67	7.87	7.76	7.87		
112.5	12.77	11.52	9.70	8.78	7.87	7.53	7.30	6.73	6.39		
135.0	9.12	7.87	7.53	6.96	6.84	6.96	6.50	5.93	5.36		
157.5	30.45	27.26	24.64	23.15	20.42	18.48	16.65	15.28	14.26		
180.0	64.22	58.74	55.43	53.50	49.96	47.45	44.48	42.43	41.18		
202.5	64.10	60.91	59.20	56.46	53.84	51.90	49.16	46.77	43.80		
225.0	73.68	70.38	65.47	63.30	59.43	54.41	50.99	48.70	47.22		
247.5	57.60	53.38	49.39	45.85	44.03	42.77	40.15	38.67	36.04		
270.0	61.14	57.72	56.12	53.84	50.19	47.91	45.28	42.20	41.75		
292.5	60.68	55.78	54.41	51.44	48.70	46.20	43.23	41.75	39.12		
315.0	72.54	69.24	66.61	63.53	57.03	53.15	48.48	45.17	43.46		
337.5	69.01	66.27	64.79	61.14	57.49	54.75	50.53	48.70	45.62		
360.0	48.36	44.26	42.89	39.69	37.75	36.39	35.25	34.33	32.05		
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0		
0.0	29.20	28.17	25.78	24.64	21.90	18.36	16.54	14.26	11.98		
22.5	28.40	26.12	24.75	23.50	22.13	19.62	16.20	14.60	11.75		
45.0	25.21	23.15	22.01	20.53	17.68	14.37	13.12	10.84	8.55		
67.5	34.56	31.94	30.34	27.49	25.55	23.61	22.24	21.56	19.39		
90.0	7.07	6.50	6.16	6.05	5.82	5.47	5.13	4.33	3.99		
112.5	6.05	5.59	5.36	5.13	5.02	4.79	4.56	4.22	3.54		
135.0	5.13	4.90	4.90	4.79	4.11	3.76	3.65	3.31	2.97		
157.5	12.32	11.29	10.61	8.90	7.76	6.39	5.36	4.79	3.88		
180.0	39.69	37.87	35.70	32.51	29.88	27.49	25.32	23.72	19.39		
202.5	41.29	38.78	36.16	34.90	30.45	27.26	26.01	23.27	19.50		
225.0	44.14	42.09	39.47	36.73	33.88	31.02	28.74	27.26	24.64		
247.5	32.62	29.88	26.80	25.78	23.50	19.85	17.45	14.71	13.23		
270.0	39.58	36.16	34.56	31.82	29.43	27.60	25.66	24.18	19.73		
292.5	36.27	34.45	33.08	32.17	29.77	27.03	24.41	22.01	18.71		
315.0	40.15	37.64	36.61	33.88	32.85	30.91	28.97	27.83	24.98		
337.5	43.00	40.83	38.21	36.84	34.56	32.05	29.09	26.46	24.30		
360.0	29.20	28.17	25.78	24.64	21.90	18.36	16.54	14.26	11.98		
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0		
0.0	9.47	6.27	5.36	4.45	3.76	3.31	2.85	2.74	2.62		
22.5	9.47	6.84	5.25	4.68	3.88	3.42	2.97	2.85	2.62		
45.0	6.16	4.68	4.11	3.54	3.19	2.85	2.62	2.62	2.51		
67.5	15.97	13.92	11.18	8.90	6.39	5.02	4.45	3.54	3.08		
90.0	3.65	3.31	3.08	2.97	2.85	2.74	2.62	2.51	2.51		
112.5	3.31	3.19	2.97	2.85	2.74	2.51	2.51	2.40	2.28		
135.0	2.85	2.74	2.62	2.51	2.40	2.40	2.28	2.28	2.17		
157.5	3.42	3.19	2.85	2.74	2.62	2.51	2.51	2.40	2.28		
180.0	16.88	14.60	12.20	10.49	6.62	4.79	4.22	3.54	3.08		
202.5	17.11	14.03	12.32	8.90	6.16	5.02	4.22	3.88	3.31		
225.0	20.99	18.48	16.08	14.60	11.29	7.98	5.93	4.79	4.11		
247.5	8.90	5.93	5.25	4.56	3.88	3.42	3.08	2.97	2.85		
270.0	17.11	14.49	11.41	8.44	6.16	5.02	4.56	3.76	3.42		
292.5	16.54	13.46	11.86	9.01	6.62	5.36	4.45	4.11	3.54		
315.0	22.36	19.05	16.31	13.92	11.41	8.67	7.30	5.59	4.68		
337.5	21.67	18.02	16.65	14.26	11.98	9.24	6.50	5.70	4.56		
360.0	9.47	6.27	5.36	4.45	3.76	3.31	2.85	2.74	2.62		

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Intensity data(cd)									Appendix Page: 18 Total:21		
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0		
0.0	2.51	2.51	2.40	2.28	2.17	2.17	2.17	2.17	2.05		
22.5	2.62	2.51	2.40	2.28	2.28	2.17	2.17	2.05	2.05		
45.0	2.40	2.40	2.28	2.28	2.17	2.05	2.05	2.05	1.94		
67.5	2.85	2.74	2.62	2.51	2.51	2.40	2.40	2.17	2.17		
90.0	2.51	2.28	2.28	2.28	2.17	2.17	2.05	2.05	2.05		
112.5	2.28	2.28	2.28	2.17	2.17	2.05	2.05	2.05	1.94		
135.0	2.17	2.05	2.05	2.05	2.05	1.94	1.94	1.82	1.94		
157.5	2.17	2.17	2.17	2.17	2.05	2.05	1.94	1.94	1.94		
180.0	2.85	2.74	2.62	2.51	2.40	2.40	2.28	2.28	2.17		
202.5	2.97	2.85	2.74	2.62	2.51	2.40	2.40	2.40	2.28		
225.0	3.54	3.19	3.08	2.85	2.74	2.62	2.51	2.51	2.28		
247.5	2.74	2.62	2.51	2.40	2.40	2.28	2.28	2.17	2.17		
270.0	3.08	2.85	2.85	2.74	2.62	2.51	2.40	2.40	2.28		
292.5	2.97	2.97	2.74	2.74	2.62	2.51	2.40	2.40	2.28		
315.0	4.11	3.54	3.31	3.08	2.85	2.85	2.74	2.74	2.51		
337.5	3.88	3.54	3.19	3.08	2.97	2.74	2.74	2.62	2.51		
360.0	2.51	2.51	2.40	2.28	2.17	2.17	2.17	2.17	2.05		
C/γ(°)	90.0	91.0	92.0	93.0	94.0	95.0	96.0	97.0	98.0		
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
202.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
247.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
292.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
337.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
C/γ(°)	99.0	100.0	101.0	102.0	103.0	104.0	105.0	106.0	107.0		
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
202.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
247.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
292.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
337.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

TroyCSL Lighting B5117-PBR

Intensity data(cd)										Appendix Page: 19 Total:21	
C/ γ (°)	108.0	109.0	110.0	111.0	112.0	113.0	114.0	115.0	116.0		
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
202.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
247.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
292.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
337.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
C/ γ (°)	117.0	118.0	119.0	120.0	121.0	122.0	123.0	124.0	125.0		
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
202.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
247.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
292.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
337.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
C/ γ (°)	126.0	127.0	128.0	129.0	130.0	131.0	132.0	133.0	134.0		
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
202.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
247.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
292.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
337.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

TroyCSL Lighting B5117-PBR

Intensity data(cd)										Appendix Page: 20 Total:21	
C/γ(°)	135.0	136.0	137.0	138.0	139.0	140.0	141.0	142.0	143.0		
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
202.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
247.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
292.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
337.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
C/γ(°)	144.0	145.0	146.0	147.0	148.0	149.0	150.0	151.0	152.0		
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
202.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
247.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
292.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
337.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
C/γ(°)	153.0	154.0	155.0	156.0	157.0	158.0	159.0	160.0	161.0		
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
202.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
247.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
292.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
337.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

TroyCSL Lighting B5117-PBR

Intensity data(cd)									Appendix Page: 21 Total:21		
C/γ(°)	162.0	163.0	164.0	165.0	166.0	167.0	168.0	169.0	170.0		
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
202.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
247.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
292.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
337.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
C/γ(°)	171.0	172.0	173.0	174.0	175.0	176.0	177.0	178.0	179.0		
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
202.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
247.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
292.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
337.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
C/γ(°)	180.0										
0.0	0.00										
22.5	0.00										
45.0	0.00										
67.5	0.00										
90.0	0.00										
112.5	0.00										
135.0	0.00										
157.5	0.00										
180.0	0.00										
202.5	0.00										
225.0	0.00										
247.5	0.00										
270.0	0.00										
292.5	0.00										
315.0	0.00										
337.5	0.00										
360.0	0.00										