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## TroyCSL Lighting

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Client:

LumCAT: B5115-PBR

Luminaire:

Report No: BSR202203020301-9

Ballast type:

Test No: BSR202203020301-9

Voltage(V): 120.000

LampCAT: GU10 8W

Current(A): 0.053

Lamp flux(lm)

Power (W): 5.932

Number of Lamps: 1

PF: 1.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

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## Photometric Results

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Lumens(lm): 479.97, Luminous Efficacy(lm/W): 80.91

Central intensity(cd): 547.286, Maximum intensity(cd): 606.356

Angle of maximum intensity: C=0.0  $\gamma$ =6.0

Beam Angle(50%Imax): [C0/180]Total=36.6

[C90/270]Total=40.3

Field angle(10%Imax): [C0/180]Total=102.6

[C90/270]Total=99.0

Maximum s/h(1/2): C0\_180=0.61 C90\_270=0.57

Maximum s/h(1/4): C0\_180=0.66 C90\_270=0.65

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 93.295%

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Equipment: GMS1800  
Temperature(°C): 25.0

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

Operator: 01  
Distance(m): 10.68

## TroyCSL Lighting B5115-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	547.286	0.000	0	0.00%	0.00%
1.0	546.943	0.524	0.524	0.11%	0.11%
2.0	545.817	1.568	2.092	0.33%	0.44%
3.0	543.714	2.606	4.698	0.54%	0.98%
4.0	540.342	3.629	8.326	0.76%	1.73%
5.0	535.765	4.629	12.956	0.96%	2.70%
6.0	528.123	5.591	18.547	1.16%	3.86%
7.0	523.183	6.525	25.072	1.36%	5.22%
8.0	515.035	7.430	32.503	1.55%	6.77%
9.0	507.663	8.288	40.791	1.73%	8.50%
10.0	500.499	9.123	49.915	1.90%	10.40%
11.0	492.058	9.918	59.832	2.07%	12.47%
12.0	484.216	10.672	70.504	2.22%	14.69%
13.0	469.673	11.320	81.825	2.36%	17.05%
14.0	441.949	11.669	93.493	2.43%	19.48%
15.0	418.695	11.815	105.309	2.46%	21.94%
16.0	378.074	11.675	116.983	2.43%	24.37%
17.0	347.548	11.300	128.283	2.35%	26.73%
18.0	322.618	11.050	139.333	2.30%	29.03%
19.0	300.711	10.845	150.178	2.26%	31.29%
20.0	289.198	10.797	160.975	2.25%	33.54%
21.0	268.104	10.701	171.676	2.23%	35.77%
22.0	250.873	10.429	182.105	2.17%	37.94%
23.0	234.976	10.194	192.299	2.12%	40.06%
24.0	215.350	9.846	202.145	2.05%	42.12%
25.0	202.411	9.499	211.644	1.98%	44.09%
26.0	189.950	9.262	220.906	1.93%	46.02%
27.0	181.502	9.088	229.993	1.89%	47.92%
28.0	177.445	9.088	239.081	1.89%	49.81%
29.0	171.992	9.142	248.223	1.90%	51.72%
30.0	166.845	9.149	257.372	1.91%	53.62%
31.0	160.464	9.109	266.481	1.90%	55.52%
32.0	150.534	8.910	275.39	1.86%	57.38%
33.0	146.150	8.740	284.131	1.82%	59.20%
34.0	140.675	8.680	292.811	1.81%	61.01%
35.0	135.741	8.584	301.395	1.79%	62.79%
36.0	131.079	8.496	309.891	1.77%	64.56%
37.0	123.964	8.318	318.209	1.73%	66.30%

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

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

Operator: 01  
Distance(m): 10.68

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	119.573	8.129	326.338	1.69%	67.99%
39.0	114.134	7.977	334.315	1.66%	69.65%
40.0	109.129	7.787	342.102	1.62%	71.28%
41.0	104.716	7.615	349.717	1.59%	72.86%
42.0	99.947	7.436	357.152	1.55%	74.41%
43.0	95.499	7.240	364.392	1.51%	75.92%
44.0	90.280	7.012	371.404	1.46%	77.38%
45.0	84.805	6.729	378.133	1.40%	78.78%
46.0	81.148	6.490	384.623	1.35%	80.13%
47.0	73.449	6.149	390.772	1.28%	81.42%
48.0	67.703	5.706	396.478	1.19%	82.60%
49.0	63.248	5.378	401.855	1.12%	83.72%
50.0	58.635	5.082	406.937	1.06%	84.78%
51.0	55.848	4.844	411.781	1.01%	85.79%
52.0	52.233	4.638	416.418	0.97%	86.76%
53.0	48.726	4.392	420.81	0.91%	87.67%
54.0	46.359	4.191	425.001	0.87%	88.55%
55.0	43.158	3.996	428.997	0.83%	89.38%
56.0	41.020	3.804	432.801	0.79%	90.17%
57.0	38.446	3.633	436.434	0.76%	90.93%
58.0	35.994	3.442	439.877	0.72%	91.65%
59.0	34.162	3.280	443.156	0.68%	92.33%
60.0	31.702	3.112	446.268	0.65%	92.98%
61.0	29.514	2.921	449.189	0.61%	93.59%
62.0	27.553	2.750	451.939	0.57%	94.16%
63.0	25.664	2.588	454.527	0.54%	94.70%
64.0	24.295	2.451	456.979	0.51%	95.21%
65.0	22.691	2.325	459.304	0.48%	95.69%
66.0	21.066	2.183	461.487	0.45%	96.15%
67.0	19.776	2.054	463.541	0.43%	96.58%
68.0	17.936	1.910	465.451	0.40%	96.97%
69.0	16.603	1.762	467.213	0.37%	97.34%
70.0	15.213	1.634	468.847	0.34%	97.68%
71.0	13.531	1.486	470.333	0.31%	97.99%
72.0	12.297	1.343	471.676	0.28%	98.27%
73.0	10.615	1.198	472.874	0.25%	98.52%
74.0	9.032	1.033	473.907	0.22%	98.74%
75.0	7.771	0.888	474.795	0.18%	98.92%

## TroyCSL Lighting B5115-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	6.231	0.743	475.538	0.15%	99.08%
77.0	5.454	0.623	476.161	0.13%	99.21%
78.0	4.434	0.529	476.69	0.11%	99.32%
79.0	3.771	0.441	477.131	0.09%	99.41%
80.0	3.429	0.388	477.519	0.08%	99.49%
81.0	3.030	0.349	477.869	0.07%	99.56%
82.0	2.795	0.316	478.185	0.07%	99.63%
83.0	2.531	0.289	478.474	0.06%	99.69%
84.0	2.338	0.265	478.739	0.06%	99.74%
85.0	2.210	0.248	478.988	0.05%	99.79%
86.0	2.089	0.235	479.223	0.05%	99.84%
87.0	2.003	0.224	479.446	0.05%	99.89%
88.0	1.946	0.216	479.663	0.05%	99.94%
89.0	1.861	0.209	479.871	0.04%	99.98%
90.0	0.000	0.102	479.974	0.02%	100.00%
91.0	0.000	0.000	479.974	0.00%	100.00%
92.0	0.000	0.000	479.974	0.00%	100.00%
93.0	0.000	0.000	479.974	0.00%	100.00%
94.0	0.000	0.000	479.974	0.00%	100.00%
95.0	0.000	0.000	479.974	0.00%	100.00%
96.0	0.000	0.000	479.974	0.00%	100.00%
97.0	0.000	0.000	479.974	0.00%	100.00%
98.0	0.000	0.000	479.974	0.00%	100.00%
99.0	0.000	0.000	479.974	0.00%	100.00%
100.0	0.000	0.000	479.974	0.00%	100.00%
101.0	0.000	0.000	479.974	0.00%	100.00%
102.0	0.000	0.000	479.974	0.00%	100.00%
103.0	0.000	0.000	479.974	0.00%	100.00%
104.0	0.000	0.000	479.974	0.00%	100.00%
105.0	0.000	0.000	479.974	0.00%	100.00%
106.0	0.000	0.000	479.974	0.00%	100.00%
107.0	0.000	0.000	479.974	0.00%	100.00%
108.0	0.000	0.000	479.974	0.00%	100.00%
109.0	0.000	0.000	479.974	0.00%	100.00%
110.0	0.000	0.000	479.974	0.00%	100.00%
111.0	0.000	0.000	479.974	0.00%	100.00%
112.0	0.000	0.000	479.974	0.00%	100.00%
113.0	0.000	0.000	479.974	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 B5115-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	479.974	0.00%	100.00%
115.0	0.000	0.000	479.974	0.00%	100.00%
116.0	0.000	0.000	479.974	0.00%	100.00%
117.0	0.000	0.000	479.974	0.00%	100.00%
118.0	0.000	0.000	479.974	0.00%	100.00%
119.0	0.000	0.000	479.974	0.00%	100.00%
120.0	0.000	0.000	479.974	0.00%	100.00%
121.0	0.000	0.000	479.974	0.00%	100.00%
122.0	0.000	0.000	479.974	0.00%	100.00%
123.0	0.000	0.000	479.974	0.00%	100.00%
124.0	0.000	0.000	479.974	0.00%	100.00%
125.0	0.000	0.000	479.974	0.00%	100.00%
126.0	0.000	0.000	479.974	0.00%	100.00%
127.0	0.000	0.000	479.974	0.00%	100.00%
128.0	0.000	0.000	479.974	0.00%	100.00%
129.0	0.000	0.000	479.974	0.00%	100.00%
130.0	0.000	0.000	479.974	0.00%	100.00%
131.0	0.000	0.000	479.974	0.00%	100.00%
132.0	0.000	0.000	479.974	0.00%	100.00%
133.0	0.000	0.000	479.974	0.00%	100.00%
134.0	0.000	0.000	479.974	0.00%	100.00%
135.0	0.000	0.000	479.974	0.00%	100.00%
136.0	0.000	0.000	479.974	0.00%	100.00%
137.0	0.000	0.000	479.974	0.00%	100.00%
138.0	0.000	0.000	479.974	0.00%	100.00%
139.0	0.000	0.000	479.974	0.00%	100.00%
140.0	0.000	0.000	479.974	0.00%	100.00%
141.0	0.000	0.000	479.974	0.00%	100.00%
142.0	0.000	0.000	479.974	0.00%	100.00%
143.0	0.000	0.000	479.974	0.00%	100.00%
144.0	0.000	0.000	479.974	0.00%	100.00%
145.0	0.000	0.000	479.974	0.00%	100.00%
146.0	0.000	0.000	479.974	0.00%	100.00%
147.0	0.000	0.000	479.974	0.00%	100.00%
148.0	0.000	0.000	479.974	0.00%	100.00%
149.0	0.000	0.000	479.974	0.00%	100.00%
150.0	0.000	0.000	479.974	0.00%	100.00%
151.0	0.000	0.000	479.974	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 B5115-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	479.974	0.00%	100.00%
153.0	0.000	0.000	479.974	0.00%	100.00%
154.0	0.000	0.000	479.974	0.00%	100.00%
155.0	0.000	0.000	479.974	0.00%	100.00%
156.0	0.000	0.000	479.974	0.00%	100.00%
157.0	0.000	0.000	479.974	0.00%	100.00%
158.0	0.000	0.000	479.974	0.00%	100.00%
159.0	0.000	0.000	479.974	0.00%	100.00%
160.0	0.000	0.000	479.974	0.00%	100.00%
161.0	0.000	0.000	479.974	0.00%	100.00%
162.0	0.000	0.000	479.974	0.00%	100.00%
163.0	0.000	0.000	479.974	0.00%	100.00%
164.0	0.000	0.000	479.974	0.00%	100.00%
165.0	0.000	0.000	479.974	0.00%	100.00%
166.0	0.000	0.000	479.974	0.00%	100.00%
167.0	0.000	0.000	479.974	0.00%	100.00%
168.0	0.000	0.000	479.974	0.00%	100.00%
169.0	0.000	0.000	479.974	0.00%	100.00%
170.0	0.000	0.000	479.974	0.00%	100.00%
171.0	0.000	0.000	479.974	0.00%	100.00%
172.0	0.000	0.000	479.974	0.00%	100.00%
173.0	0.000	0.000	479.974	0.00%	100.00%
174.0	0.000	0.000	479.974	0.00%	100.00%
175.0	0.000	0.000	479.974	0.00%	100.00%
176.0	0.000	0.000	479.974	0.00%	100.00%
177.0	0.000	0.000	479.974	0.00%	100.00%
178.0	0.000	0.000	479.974	0.00%	100.00%
179.0	0.000	0.000	479.974	0.00%	100.00%
180.0	0.000	0.000	479.974	0.00%	100.00%

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

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

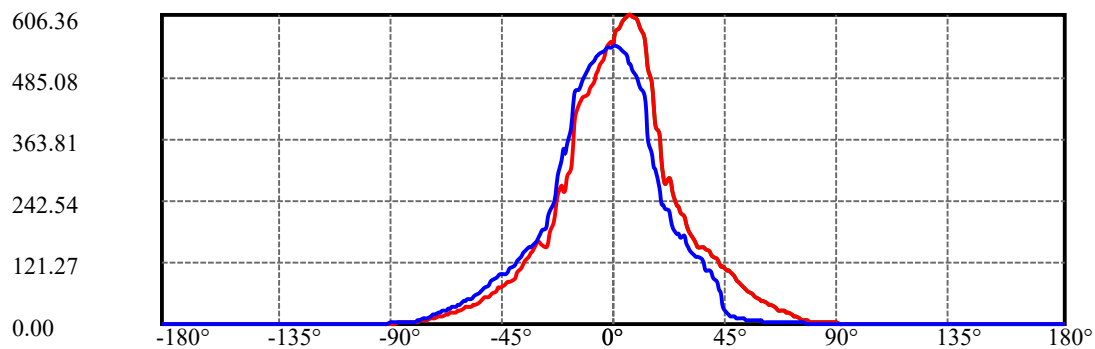
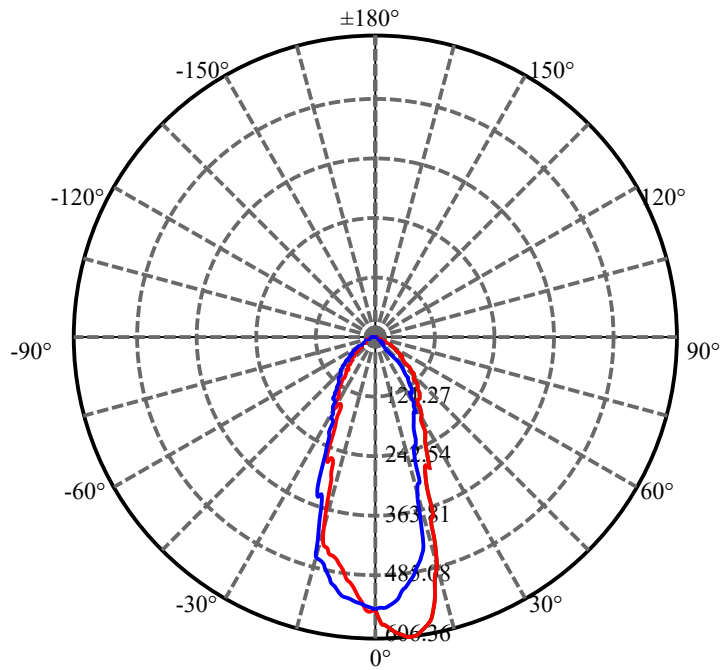
Operator: 01  
Distance(m): 10.68

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-30	257.37	53.62%
0-40	342.10	71.28%
0-60	446.27	92.98%
0-90	479.97	100.00%
0-120	479.97	100.00%
0-180	479.97	100.00%
60-90	33.71	7.02%
90-120	0.00	0.00%
90-130	0.00	0.00%
90-150	0.00	0.00%
90-180	0.00	0.00%
0-45.90	383.98	80.00%

## ZONAL LUMEN SUMMARY

0-10	49.91
10-20	111.06
20-30	96.40
30-40	84.73
40-50	64.84
50-60	39.33
60-70	22.58
70-80	8.67
80-90	2.45
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:

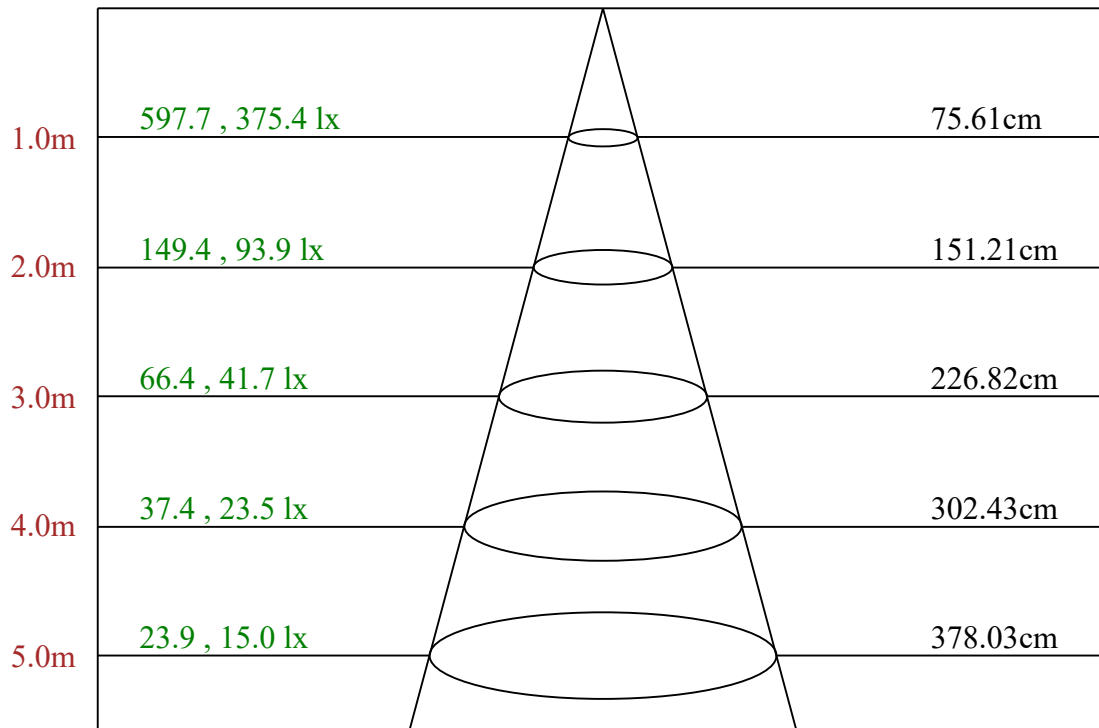
Field angle(10%I<sub>max</sub>):C0/180Left:55.7 Right:46.7

:C90/270Left:58.2 Right:41.1

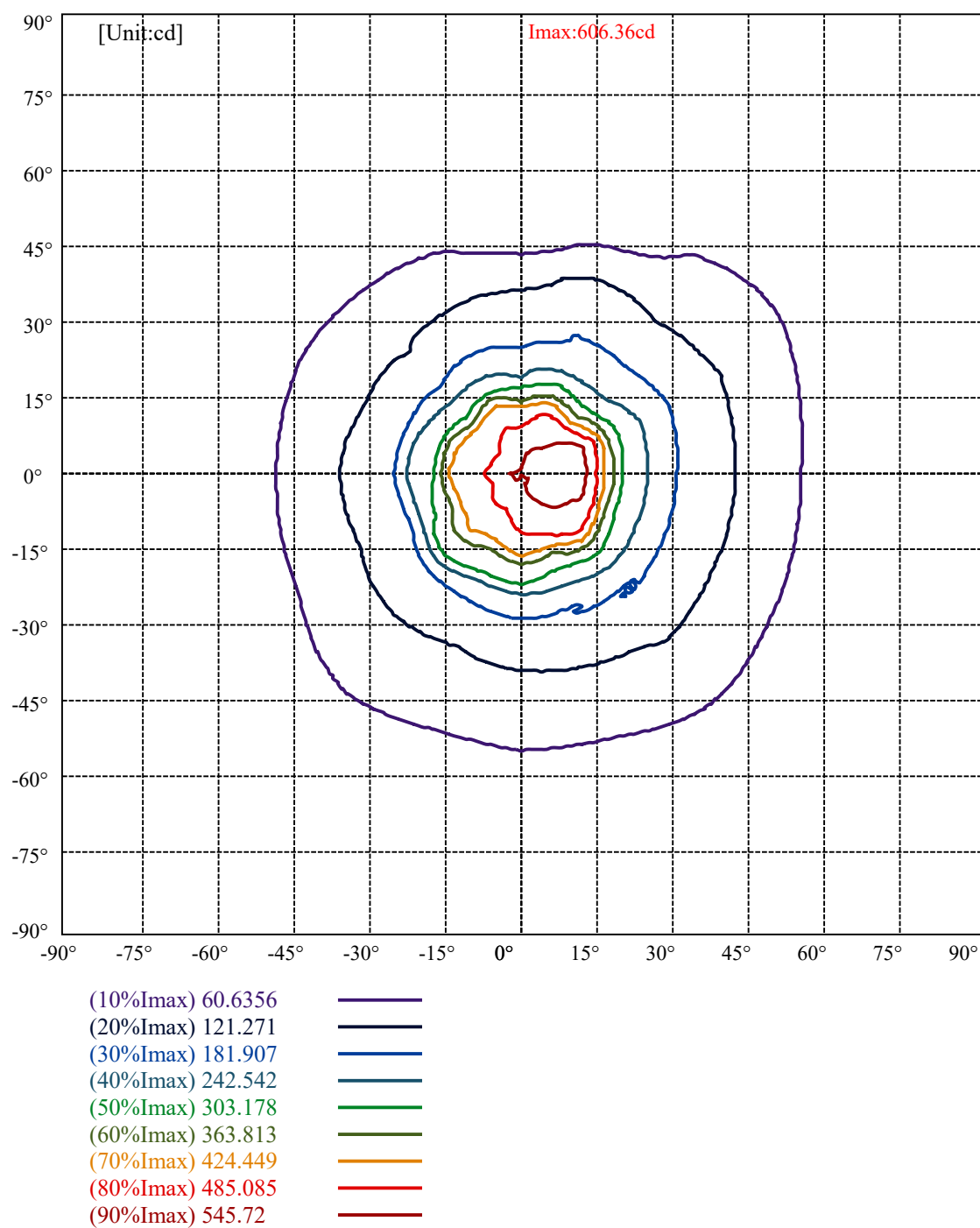
Beam Angle(50%I<sub>max</sub>):C0/180Left:25.3 Right:11.8

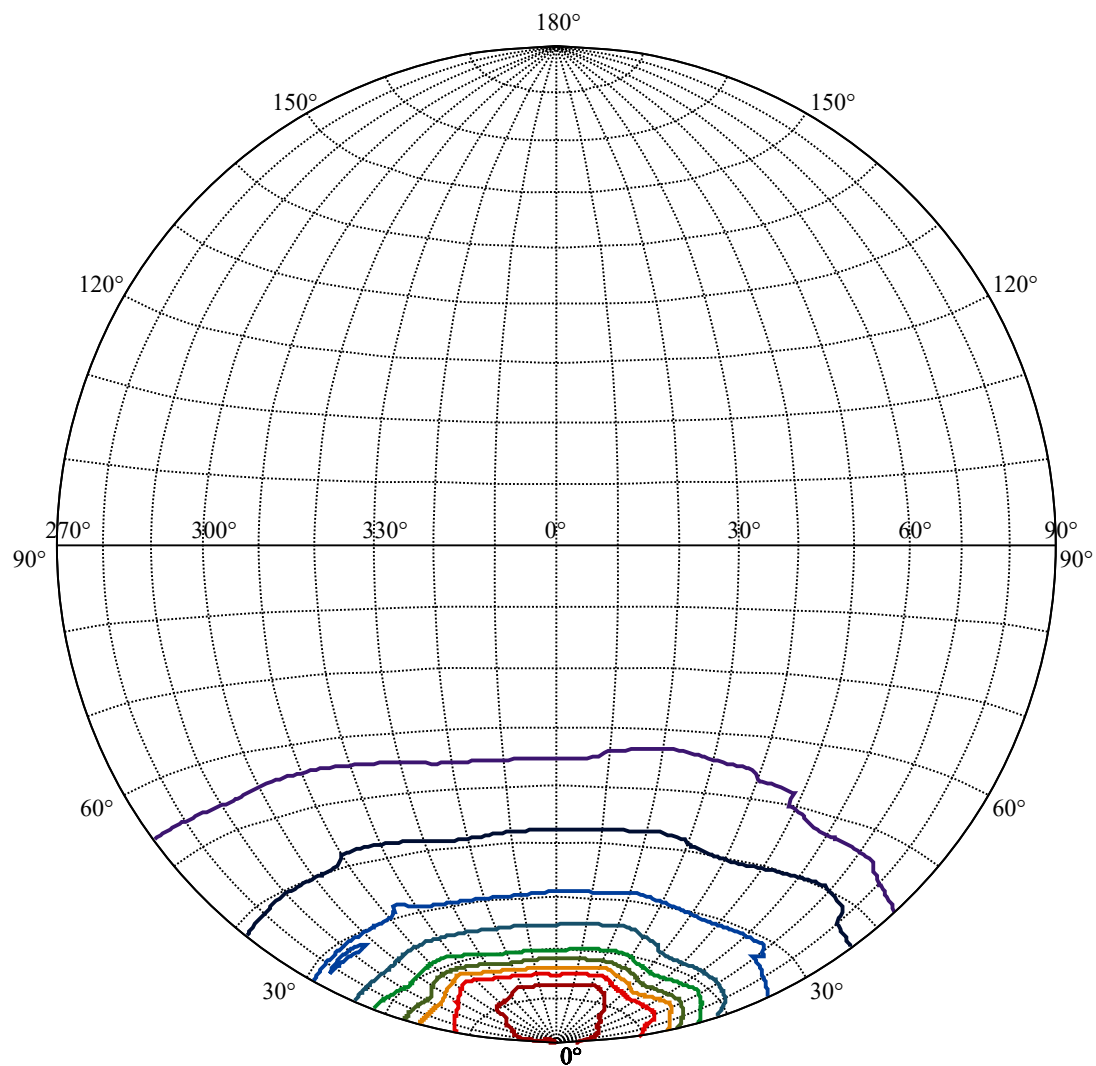
:C90/270Left:24.3 Right:16.0





Max , Ave      Beam angle of C0 plane 41.42





House

[Unit:cd]

Road

Imax:606.36

(10%Imax) 60.4531

(20%Imax) 120.906

(30%Imax) 181.359

(40%Imax) 241.812

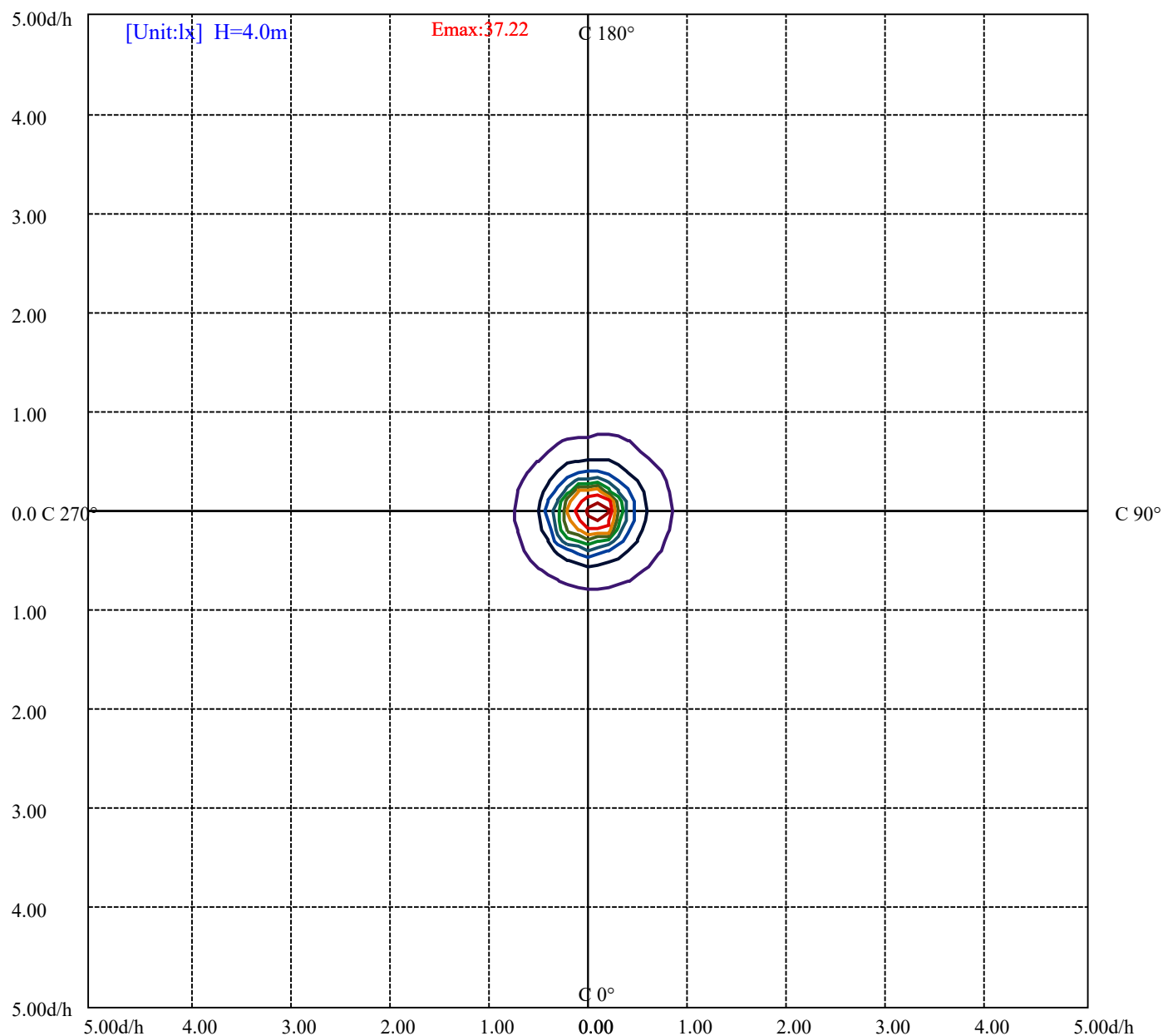
(50%Imax) 302.265

(60%Imax) 362.718

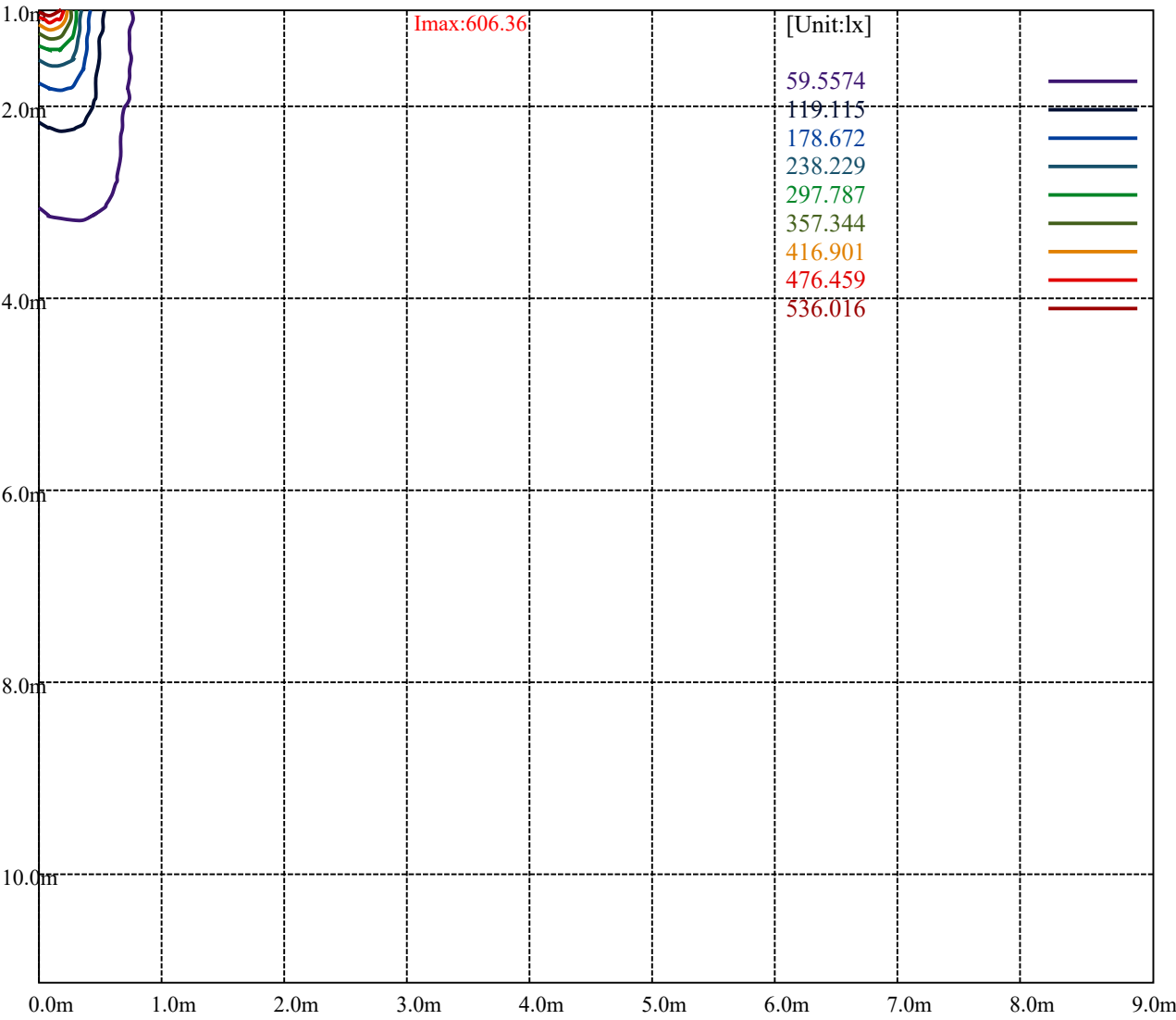
(70%Imax) 423.172

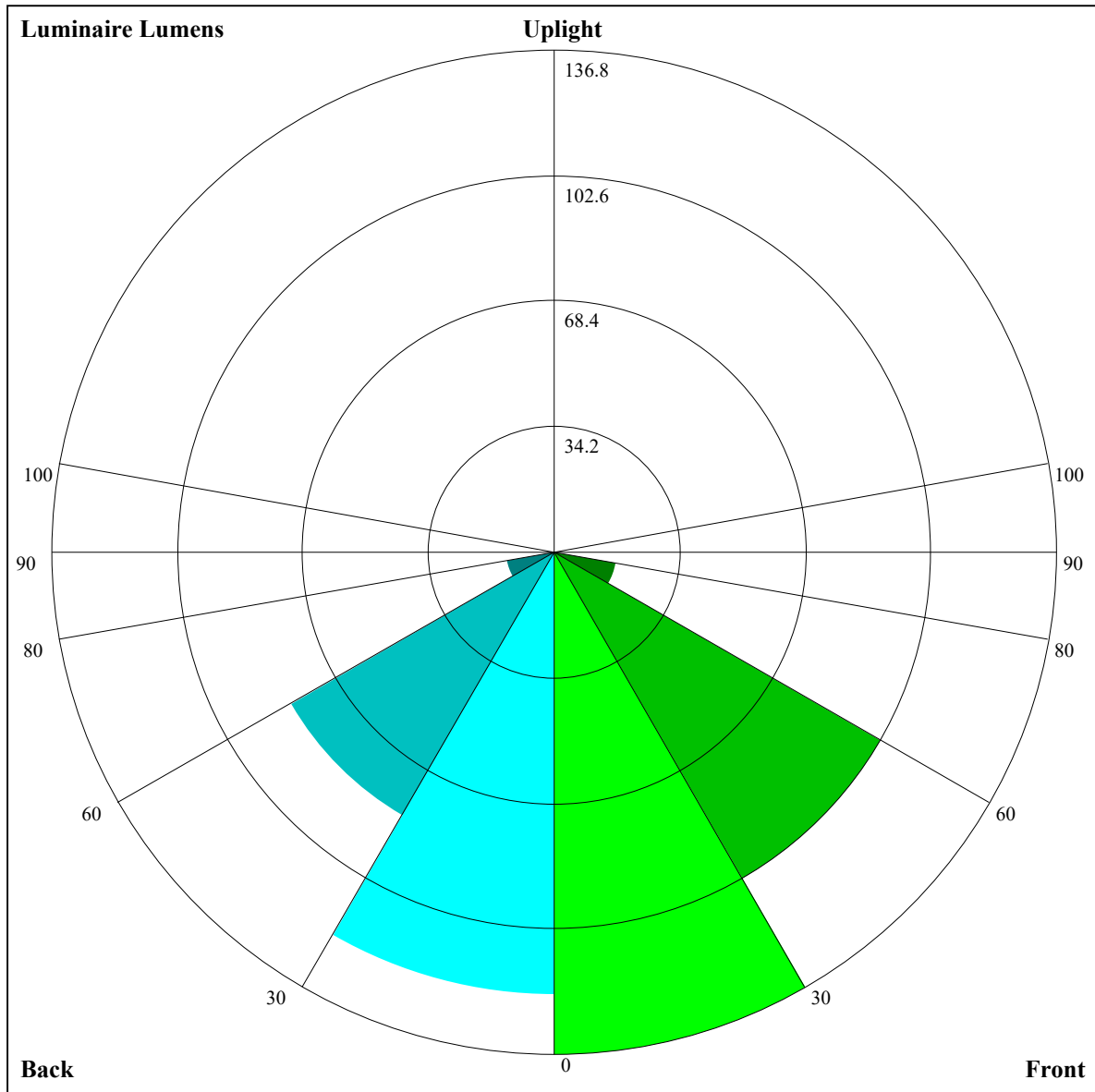
(80%Imax) 483.625

(90%Imax) 544.078



(10%E <sub>max</sub> ) 3.722325	—
(20%E <sub>max</sub> ) 7.444625	—
(30%E <sub>max</sub> ) 11.167	—
(40%E <sub>max</sub> ) 14.88931	—
(50%E <sub>max</sub> ) 18.61163	—
(60%E <sub>max</sub> ) 22.33394	—
(70%E <sub>max</sub> ) 26.05625	—
(80%E <sub>max</sub> ) 29.77863	—
(90%E <sub>max</sub> ) 33.50094	—





Luminaire Lumens:

FL=136.8,FM=102.78,FH=17.37,FVH=1.22

BL=120.73,BM=82.79,BH=13.32,BVH=1.1

UL=0,UH=0

BUG Rating:B1-U0-G0

## TroyCSL Lighting B5115-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	547.29	573.85	578.18	587.19	595.86	602.71	606.36	606.36	604.42		
22.5	547.29	556.28	561.64	567.80	571.11	576.24	581.38	582.97	583.66		
45.0	547.29	560.84	560.96	560.73	559.36	556.51	550.81	547.61	541.45		
67.5	547.29	552.63	553.54	553.32	551.83	546.70	538.37	533.70	524.46		
90.0	547.29	546.24	543.74	539.74	534.27	526.51	514.08	507.35	496.06		
112.5	547.29	539.06	538.15	535.41	531.30	524.23	513.97	504.61	495.72		
135.0	547.29	527.99	522.63	513.05	507.81	498.79	482.60	476.67	466.17		
157.5	547.29	531.99	520.35	514.65	501.87	496.29	484.65	474.04	464.69		
180.0	547.29	553.66	547.39	535.64	521.15	509.40	496.86	488.87	473.59		
202.5	547.29	536.55	529.93	518.07	504.73	494.00	479.86	473.36	465.15		
225.0	547.29	555.03	547.73	535.87	529.82	518.76	501.30	494.12	481.80		
247.5	547.29	536.78	532.22	523.77	514.76	505.64	495.83	490.47	480.54		
270.0	547.29	543.39	541.57	538.03	535.07	530.39	526.51	523.55	517.04		
292.5	547.29	543.74	546.70	548.75	548.98	546.70	538.60	533.81	526.06		
315.0	547.29	539.06	542.82	553.54	561.07	563.47	563.81	560.50	552.75		
337.5	547.29	554.00	565.52	573.85	576.47	575.90	574.99	572.94	567.00		
360.0	547.29	573.85	578.18	587.19	595.86	602.71	606.36	606.36	604.42		
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0		
0.0	598.71	590.04	580.01	563.24	538.83	499.37	475.87	428.53	389.52		
22.5	580.69	574.19	567.57	563.47	549.10	526.85	500.51	455.22	424.08		
45.0	536.55	526.85	514.76	498.79	468.34	413.48	384.62	345.61	322.45		
67.5	517.50	508.49	501.19	496.51	478.61	459.56	425.11	373.55	334.32		
90.0	485.56	475.98	461.38	451.23	427.16	361.69	335.57	310.25	301.81		
112.5	486.13	480.54	470.17	460.70	457.16	426.37	399.79	340.82	292.68		
135.0	462.41	459.44	457.28	444.16	400.82	341.05	307.74	288.35	273.29		
157.5	456.82	453.97	449.86	445.19	436.63	410.40	386.56	331.58	289.15		
180.0	461.72	453.06	447.47	444.96	436.74	428.99	401.96	346.86	303.75		
202.5	451.00	447.12	442.68	441.42	432.30	388.50	360.32	325.19	323.94		
225.0	473.59	462.41	453.51	447.35	438.46	429.33	429.44	407.66	380.17		
247.5	471.53	463.09	453.63	443.93	437.43	418.04	395.00	354.85	333.86		
270.0	507.58	501.99	491.72	479.52	468.68	459.90	455.34	425.91	384.16		
292.5	521.27	508.72	498.57	493.66	483.28	469.82	437.09	379.49	354.51		
315.0	547.39	542.37	532.10	523.77	517.73	512.82	507.69	496.97	449.98		
337.5	564.15	559.70	551.04	549.55	543.51	525.03	496.51	438.34	403.10		
360.0	598.71	590.04	580.01	563.24	538.83	499.37	475.87	428.53	389.52		
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0		
0.0	373.33	322.57	291.09	276.26	284.36	280.25	256.53	235.20	228.01		
22.5	371.96	338.65	320.97	283.33	272.27	265.20	253.56	247.06	230.86		
45.0	290.97	258.92	260.86	248.88	230.41	222.65	215.69	202.46	196.42		
67.5	322.91	301.70	283.79	249.80	233.49	222.88	213.98	206.68	192.42		
90.0	268.39	238.39	231.66	224.70	220.82	202.57	186.72	178.74	175.31		
112.5	285.16	264.05	246.83	227.55	222.65	217.40	202.57	183.30	176.57		
135.0	254.59	247.06	232.46	209.76	194.36	179.19	170.18	168.70	161.63		
157.5	270.90	258.58	255.96	245.46	232.46	217.17	181.02	161.74	159.00		
180.0	290.17	263.94	259.61	269.53	252.76	227.78	199.95	180.79	157.63		
202.5	312.30	294.97	287.21	262.34	218.66	197.90	171.55	155.92	145.89		
225.0	327.47	333.29	342.76	329.64	292.11	257.21	222.99	206.57	181.47		
247.5	339.22	336.94	324.05	291.09	255.61	228.70	204.97	194.25	185.81		
270.0	352.22	336.60	342.76	321.31	288.69	256.30	235.88	222.65	210.67		
292.5	331.24	327.47	298.05	265.77	265.99	249.45	227.90	214.78	195.16		
315.0	419.86	360.21	351.43	317.32	282.19	267.82	257.78	238.96	218.54		
337.5	351.20	328.04	297.70	266.91	267.13	267.13	244.32	240.79	223.79		
360.0	373.33	322.57	291.09	276.26	284.36	280.25	256.53	235.20	228.01		

## TroyCSL Lighting B5115-PBR

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	217.63	212.16	194.59	183.07	178.74	164.25	159.00	150.45	149.31		
22.5	220.14	210.10	203.72	197.44	186.61	177.14	170.30	161.17	156.72		
45.0	191.40	187.18	181.02	166.99	160.60	153.30	150.90	148.40	142.35		
67.5	181.93	183.53	182.39	176.57	166.30	157.63	153.07	146.34	143.60		
90.0	170.07	172.23	159.35	151.93	143.03	133.80	133.57	131.51	126.50		
112.5	171.32	167.67	155.92	146.57	142.92	138.93	132.77	123.42	121.25		
135.0	153.98	148.17	138.81	133.45	126.72	120.45	120.11	118.85	114.06		
157.5	152.50	153.30	159.80	153.53	146.68	129.80	122.27	115.89	113.72		
180.0	151.47	153.53	158.55	162.88	156.84	141.67	138.24	131.51	125.13		
202.5	149.08	153.30	156.84	157.75	148.05	132.31	129.35	122.96	116.57		
225.0	171.21	166.19	162.31	161.51	161.97	158.20	152.96	147.71	137.22		
247.5	181.47	176.45	166.99	162.42	152.73	145.43	141.55	135.51	127.18		
270.0	188.66	185.12	178.17	169.50	162.54	152.84	150.45	149.76	143.03		
292.5	189.00	178.62	183.07	180.10	171.66	158.32	153.30	150.45	146.80		
315.0	202.23	196.87	182.73	180.67	185.01	177.48	169.15	164.93	156.49		
337.5	211.93	194.70	187.63	185.12	177.02	166.99	161.40	151.93	151.93		
360.0	217.63	212.16	194.59	183.07	178.74	164.25	159.00	150.45	149.31		
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0		
0.0	152.16	145.09	142.24	135.85	131.86	128.09	120.56	114.18	112.47		
22.5	151.47	148.51	144.29	137.33	132.20	125.01	123.42	120.68	114.06		
45.0	137.10	126.95	123.99	120.68	116.91	115.32	111.32	106.19	101.97		
67.5	144.17	142.12	138.36	135.05	125.13	112.58	102.31	99.69	95.58		
90.0	120.34	106.99	105.05	100.60	91.14	81.21	68.55	58.97	35.25		
112.5	118.97	114.63	108.02	101.52	96.95	95.01	90.68	84.18	75.97		
135.0	106.65	93.42	89.65	88.74	87.60	84.41	82.24	81.44	76.54		
157.5	113.38	111.21	102.66	92.16	88.40	86.35	80.41	76.19	74.71		
180.0	117.14	108.25	101.74	90.22	87.37	84.63	83.15	79.96	75.05		
202.5	114.86	106.65	97.75	95.24	92.28	90.11	87.03	83.27	81.90		
225.0	124.33	118.85	117.37	112.92	105.85	101.86	99.58	93.87	89.54		
247.5	119.20	116.69	113.61	108.13	105.62	104.60	101.52	94.44	89.08		
270.0	140.75	130.83	125.01	118.05	113.72	109.61	102.54	99.69	99.01		
292.5	143.38	134.82	129.92	125.70	117.48	110.07	105.85	104.25	102.66		
315.0	150.68	142.24	139.04	131.29	126.27	124.56	122.39	118.28	110.98		
337.5	142.69	136.19	134.48	132.65	127.29	122.05	117.60	112.69	109.73		
360.0	152.16	145.09	142.24	135.85	131.86	128.09	120.56	114.18	112.47		
C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0		
0.0	106.65	105.39	100.37	93.53	86.57	82.24	76.76	71.06	66.73		
22.5	112.12	110.64	102.54	94.67	90.57	86.69	84.18	78.36	73.23		
45.0	93.99	91.48	84.75	82.81	78.47	72.66	67.64	63.30	58.40		
67.5	85.43	77.45	54.52	34.79	22.36	17.11	15.51	13.00	11.29		
90.0	22.01	19.05	15.97	13.57	11.86	10.49	10.04	9.47	8.90		
112.5	65.81	57.26	33.19	21.67	17.91	14.60	13.12	12.32	10.84		
135.0	68.67	60.22	54.64	52.13	48.13	42.20	39.92	36.84	33.88		
157.5	71.63	67.98	62.85	58.51	56.23	52.24	47.91	44.60	42.55		
180.0	70.83	70.15	65.13	60.34	56.80	53.72	52.47	49.27	45.62		
202.5	77.45	73.91	64.90	61.02	58.86	56.80	54.29	51.33	46.31		
225.0	85.77	82.81	78.13	73.91	71.29	68.32	66.84	63.30	60.22		
247.5	84.86	82.58	80.19	76.19	72.32	68.32	66.61	61.48	56.00		
270.0	97.52	95.81	91.71	86.57	80.98	73.57	71.17	67.98	64.10		
292.5	99.35	95.01	88.17	84.52	79.73	74.71	71.06	66.50	63.19		
315.0	107.33	104.02	99.46	93.99	91.02	86.00	81.21	76.31	70.49		
337.5	107.45	104.60	98.66	95.01	88.85	78.47	74.82	70.60	67.87		
360.0	106.65	105.39	100.37	93.53	86.57	82.24	76.76	71.06	66.73		



# TroyCSL Lighting B5115-PBR

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	63.53	59.54	56.35	52.58	49.62	46.99	44.14	41.63	39.12		
22.5	70.38	66.84	64.90	59.88	56.57	52.58	47.68	44.26	41.29		
45.0	56.46	53.84	50.64	46.65	42.20	40.15	37.18	33.53	32.39		
67.5	10.61	9.47	8.44	7.76	7.07	6.73	6.27	5.82	5.36		
90.0	8.33	7.76	7.19	6.62	6.16	5.82	5.25	4.79	4.56		
112.5	10.15	9.12	8.33	7.53	6.84	6.50	6.27	5.82	5.59		
135.0	30.68	28.52	27.83	25.09	22.70	22.24	20.19	19.05	17.57		
157.5	40.95	37.75	35.59	33.76	31.94	30.00	28.06	26.23	24.87		
180.0	43.12	39.35	37.53	35.36	33.53	32.62	29.77	27.72	26.35		
202.5	44.60	41.75	39.12	37.07	35.36	33.08	30.80	28.74	26.92		
225.0	56.57	51.90	50.99	48.70	44.26	42.20	39.81	36.73	33.76		
247.5	53.95	50.53	47.45	44.48	42.66	41.18	38.21	35.82	33.08		
270.0	61.14	57.37	54.07	50.07	47.11	46.31	43.46	39.24	36.61		
292.5	60.00	54.98	53.04	50.76	47.68	43.69	40.61	38.90	35.59		
315.0	67.98	63.99	59.31	55.78	52.70	50.30	46.65	42.89	41.18		
337.5	63.30	57.83	55.55	53.04	49.50	46.20	42.89	41.06	36.61		
360.0	63.53	59.54	56.35	52.58	49.62	46.99	44.14	41.63	39.12		
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0		
0.0	36.39	33.53	31.14	28.17	27.26	25.21	23.38	21.22	18.02		
22.5	39.12	37.98	36.04	33.99	31.48	28.86	27.72	25.09	22.93		
45.0	30.34	28.40	26.46	23.61	22.36	20.53	18.93	17.11	14.26		
67.5	5.02	4.79	4.56	4.45	4.11	3.88	3.88	3.65	3.08		
90.0	4.33	4.22	3.88	3.65	3.54	3.19	2.85	2.51	2.28		
112.5	4.90	4.56	4.33	4.11	3.99	3.65	3.31	2.97	2.74		
135.0	16.08	15.51	14.26	13.12	12.09	10.84	10.27	9.35	8.10		
157.5	22.58	21.44	20.07	18.82	17.91	15.40	14.03	13.35	11.75		
180.0	24.07	23.15	21.56	20.42	18.71	16.65	15.40	14.26	13.00		
202.5	25.44	24.07	22.58	20.30	18.82	17.11	15.51	14.14	12.43		
225.0	31.82	30.45	28.06	27.03	25.55	23.38	20.42	18.36	16.88		
247.5	30.68	29.09	26.80	24.18	22.58	20.19	18.59	16.65	14.37		
270.0	34.33	32.17	30.80	28.63	27.26	24.75	22.81	20.87	19.05		
292.5	32.74	31.48	29.43	27.15	24.87	22.58	21.44	19.62	17.68		
315.0	37.53	34.79	32.96	31.02	29.43	26.92	24.52	23.15	20.99		
337.5	35.25	33.08	30.11	28.40	26.46	23.84	22.58	21.10	18.93		
360.0	36.39	33.53	31.14	28.17	27.26	25.21	23.38	21.22	18.02		
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0		
0.0	16.65	14.37	10.61	9.12	6.96	6.05	4.79	4.11	3.76		
22.5	19.96	16.77	13.92	11.52	9.12	7.87	5.93	5.02	4.33		
45.0	12.77	10.61	8.44	6.27	4.90	4.11	3.54	3.08	2.85		
67.5	2.85	2.51	2.40	2.28	2.17	2.17	2.05	1.94	1.94		
90.0	2.17	2.17	2.05	1.94	1.94	1.82	1.82	1.71	1.71		
112.5	2.51	2.40	2.28	2.17	2.05	1.94	1.94	1.82	1.82		
135.0	6.84	5.93	5.13	4.33	3.42	3.19	2.85	2.51	2.28		
157.5	10.38	9.12	7.98	7.41	5.93	4.90	4.11	3.42	3.19		
180.0	11.98	10.49	9.12	7.64	6.50	5.93	4.68	3.88	3.31		
202.5	11.75	9.92	7.76	6.96	5.93	4.68	3.99	3.31	3.19		
225.0	15.97	14.03	12.20	10.38	8.90	7.98	6.27	5.02	4.33		
247.5	13.46	11.98	10.61	8.90	6.96	5.93	4.68	3.88	3.65		
270.0	17.79	15.51	13.12	11.86	9.70	8.90	6.27	5.25	4.79		
292.5	15.97	13.23	11.29	9.35	7.19	6.39	5.36	4.68	4.11		
315.0	19.05	16.77	14.83	13.46	10.84	9.01	7.30	6.05	5.47		
337.5	16.65	14.03	12.77	10.72	7.19	6.39	5.36	4.68	4.11		
360.0	16.65	14.37	10.61	9.12	6.96	6.05	4.79	4.11	3.76		

# TroyCSL Lighting B5115-PBR

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	3.42	2.97	2.62	2.40	2.17	2.05	1.94	1.94	1.94		
22.5	3.76	3.54	3.08	2.62	2.40	2.17	2.05	1.94	1.82		
45.0	2.62	2.28	2.05	1.94	1.94	1.82	1.71	1.71	1.71		
67.5	1.94	1.82	1.71	1.71	1.71	1.71	1.71	1.60	1.60		
90.0	1.71	1.60	1.60	1.60	1.48	1.60	1.48	1.48	1.48		
112.5	1.71	1.71	1.71	1.71	1.60	1.60	1.60	1.60	1.48		
135.0	2.05	1.94	1.82	1.71	1.71	1.60	1.60	1.71	1.60		
157.5	2.74	2.51	2.28	2.17	2.05	1.82	1.82	1.82	1.71		
180.0	2.97	2.74	2.51	2.28	2.17	2.05	1.82	1.82	1.71		
202.5	2.85	2.74	2.40	2.28	2.17	2.05	1.82	1.82	1.71		
225.0	3.65	3.42	3.08	2.74	2.62	2.40	2.28	2.17	2.05		
247.5	3.19	2.97	2.85	2.62	2.40	2.40	2.28	2.17	2.05		
270.0	4.11	3.65	3.19	2.97	2.85	2.62	2.62	2.40	2.28		
292.5	3.54	3.31	2.97	2.74	2.62	2.51	2.40	2.28	2.17		
315.0	4.56	4.11	3.65	3.19	2.97	2.62	2.51	2.51	2.40		
337.5	3.65	3.42	2.97	2.74	2.51	2.40	2.40	2.17	2.05		
360.0	3.42	2.97	2.62	2.40	2.17	2.05	1.94	1.94	1.94		
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 B5115-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 B5115-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 B5115-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										