

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: G3-2106-280-2

Luminaire Tested: **SDL-PA1-20-AMB-U-T2U-A**

Test Date: 6/29/2021

Test Information

Test Method: LM-79-08
Report Number: G3-2106-280-2
Test Lab: COOPER LIGHTING SOLUTIONS
Test Date: 6/29/2021
Issue Date: 6/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: SDL-PA1-20-AMB-U-T2U-A
Description: SDL. (1) AMBER, 500MA LIGHT ENGINE WITH 24 LEDS EACH AND TYPE II U OPTICS WITH CLEAR PANELS
Light Source: (24) CREE AMBER LEDS
GW CSSRM3.PM-N6N8-A535-1. CREE
Ballast/Driver: (1) ADVANCE ELECT DRIVER AT 500 mA
XI100C150V091BSY1

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1196.3 lumens
Efficiency: N/A
Efficacy: 38.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U2 - G1

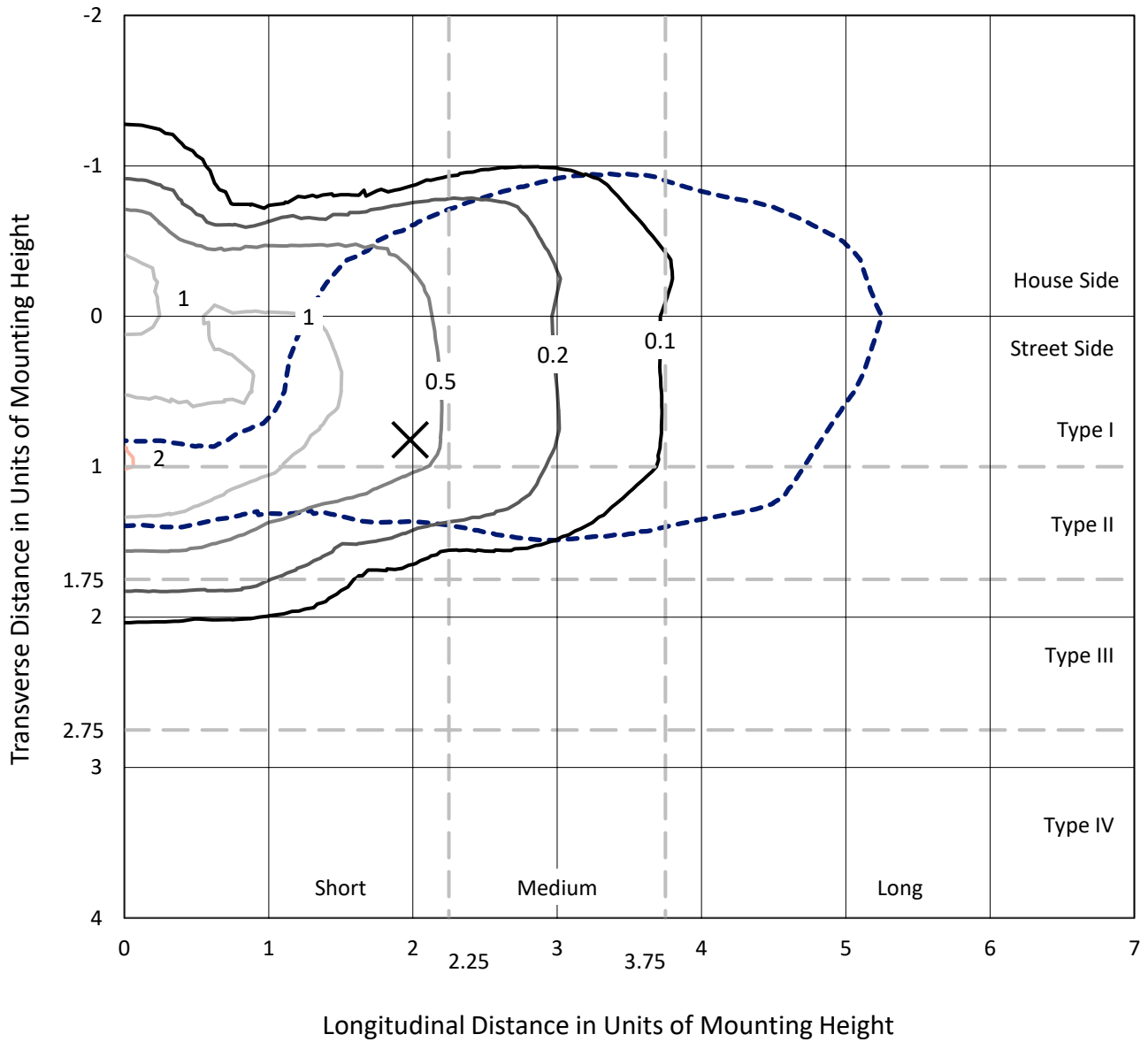
Input Watts (W): 31.3
Input Voltage (V): 120.1
Input Current (Ain): 0.266
Voltage Rise (V): NR
Power Factor: 0.9809
Total Harmonic Distortion (THDi): 17.6%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): 24.4
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

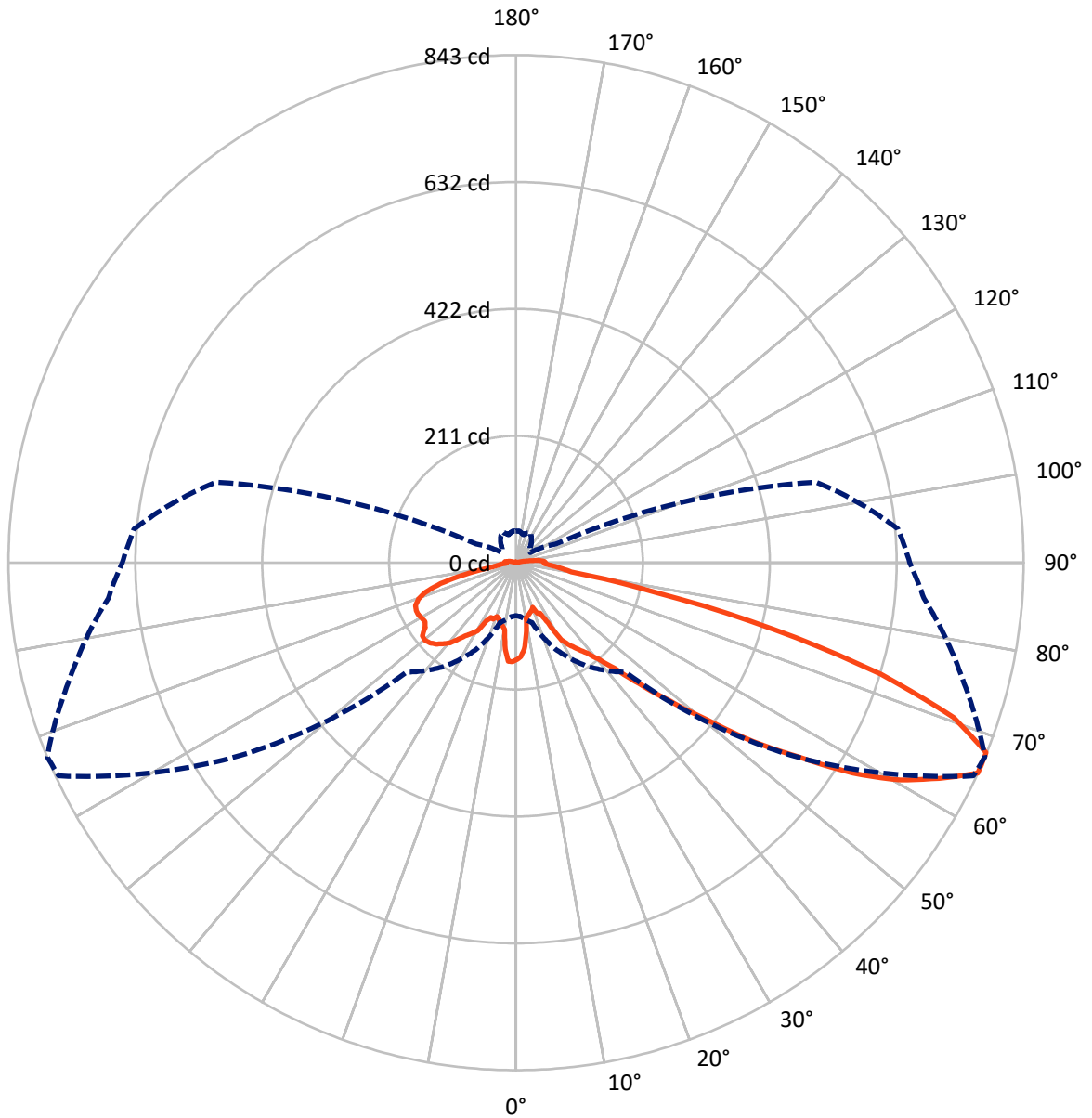
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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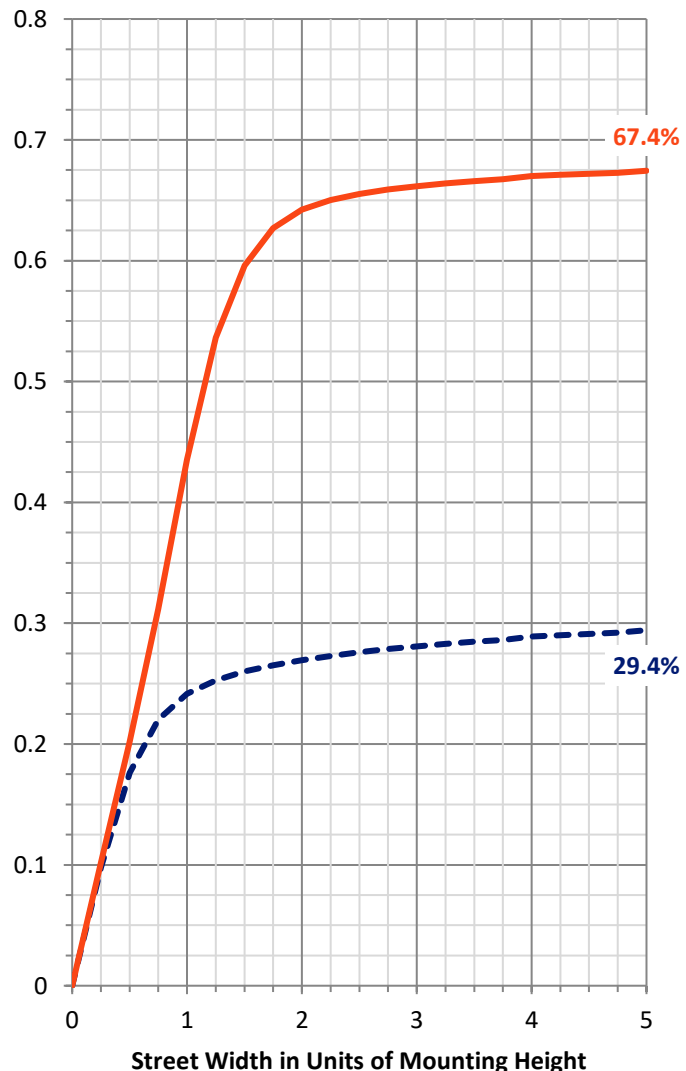
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	362.3	11.3	373.6
	% Fixture	30.3	0.9	31.2
Street Side	Lumens	812.7	10.0	822.7
	% Fixture	67.9	0.8	68.8
Total	Lumens	1175.0	21.3	1196.3
	% Fixture	98.2	1.8	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.0	1.1
10°-20°	29.4	2.5
20°-30°	51.1	4.3
30°-40°	100.1	8.4
40°-50°	189.8	15.9
50°-60°	281.9	23.6
60°-70°	279.8	23.4
70°-80°	184.9	15.5
80°-90°	44.9	3.8
90°-100°	16.6	1.4
100°-110°	2.9	0.2
110°-120°	0.5	0.0
120°-130°	0.5	0.0
130°-140°	0.5	0.0
140°-150°	0.1	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1175.0	98.2
0°-180°	1196.3	100.0



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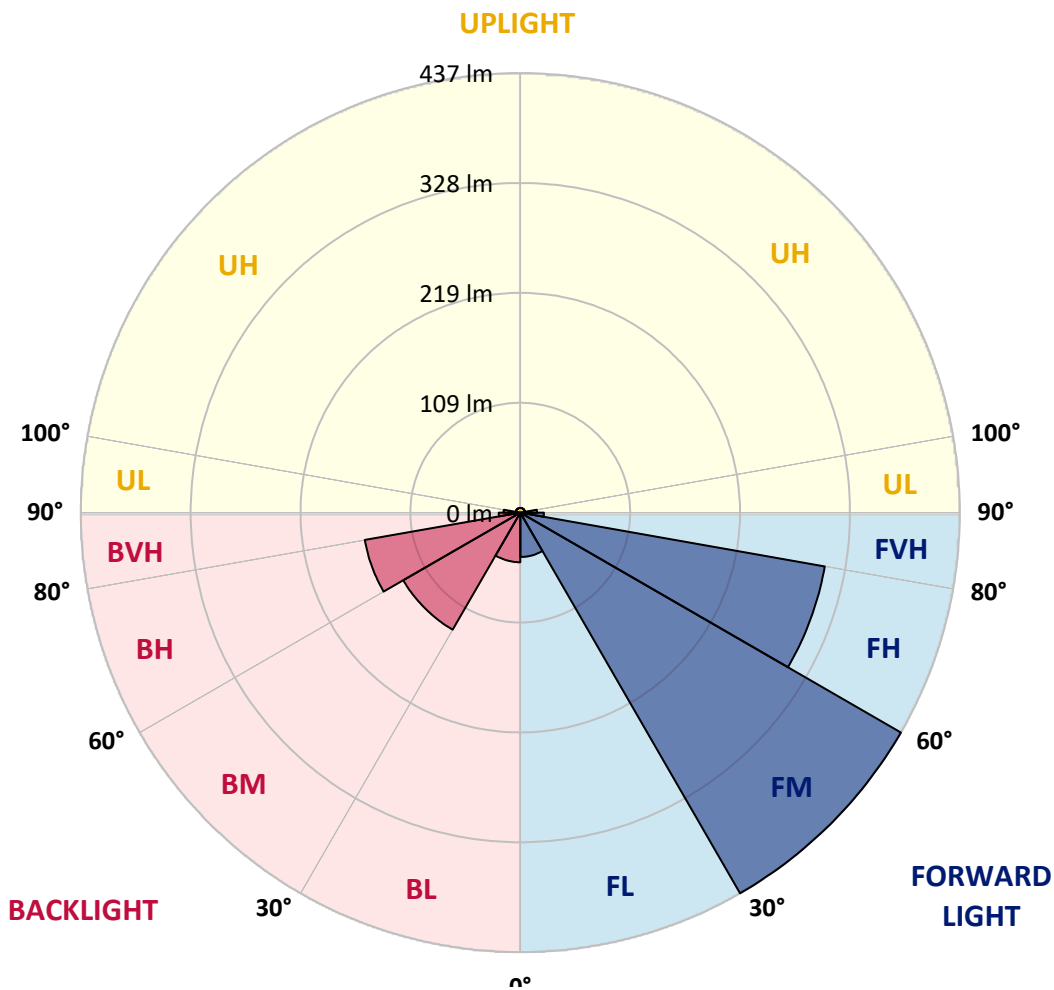
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	44.2	3.7			
FM (30°-60°)	437.4	36.6			
FH (60°-80°)	307.7	25.7			G0/660
FVH (80°-90°)	23.5	2.0			G1/100
BL (0°-30°)	49.4	4.1	B0/110		
BM (30°-60°)	134.4	11.2	B0/220		
BH (60°-80°)	157.1	13.1	B1/500		G1/500
BVH (80°-90°)	21.4	1.8			G1/100
UL (90°-100°)	16.6	1.4		U2/50	
UH (100°-180°)	4.7	0.4		U1/10	

BUG Rating: B1-U2-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67.5°	75°	85°
0°	161	161	161	161	161	161	161	161	161	161	161
2.5°	129	129	130	142	146	151	154	156	156	157	159
5°	120	120	120	121	121	122	124	137	144	150	155
7.5°	98	97	106	113	114	117	119	121	121	136	136
10°	108	106	107	108	108	101	92	93	93	97	116
12.5°	89	89	97	105	98	88	78	89	90	89	97
15°	106	104	104	103	74	87	76	84	86	93	109
17.5°	91	89	90	99	88	67	84	79	84	82	79
20°	106	107	108	96	82	90	75	78	79	94	107
22.5°	95	95	93	101	92	92	91	95	92	84	82
25°	118	118	120	109	100	95	97	91	93	110	119
27.5°	134	135	115	109	109	111	99	109	113	122	144
30°	166	166	163	141	115	109	117	133	149	163	170
32.5°	237	232	220	173	141	138	135	158	163	174	183
35°	290	286	270	233	169	157	153	172	176	193	197
37.5°	355	350	336	273	209	185	166	187	190	209	213
40°	434	428	409	334	252	220	197	211	210	237	235
42.5°	511	500	484	409	307	280	234	248	240	268	266
45°	577	563	543	472	373	347	278	283	287	309	303
47.5°	604	583	578	519	441	414	333	333	342	362	352
50°	568	555	563	537	492	486	406	395	408	435	404
52.5°	485	480	507	506	506	544	484	476	494	512	470
55°	395	398	434	449	481	571	560	556	569	579	529
57.5°	310	315	360	387	430	552	623	646	660	644	575
60°	211	218	268	326	353	474	648	730	733	701	626
62.5°	148	146	169	256	281	368	637	798	789	744	665
65°	88	90	103	160	211	257	558	838	843	770	680
67.5°	63	63	68	90	151	155	396	824	842	763	675
70°	58	59	61	64	110	96	203	721	771	724	646
72.5°	50	52	57	61	80	75	103	546	634	701	603
75°	41	43	47	57	57	62	87	334	443	643	571
77.5°	33	34	37	45	48	49	80	139	237	474	527
80°	23	24	27	34	37	38	68	84	93	230	343
82.5°	15	15	18	22	25	34	58	74	74	107	170
85°	8	8	9	10	12	20	48	63	59	66	63
87.5°	4	4	3	4	4	8	34	48	47	48	53
90°	4	4	2	3	4	5	25	47	49	50	55
92.5°	4	4	2	2	3	4	16	43	46	51	56
95°	3	3	1	2	3	3	10	38	38	49	55
97.5°	3	3	1	1	2	2	4	21	23	22	27
100°	3	3	1	1	2	2	3	10	10	5	3
102.5°	4	4	1	1	1	1	2	4	4	3	4
105°	5	5	1	1	1	1	1	2	2	2	3
107.5°	5	5	1	1	1	1	1	1	1	2	3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	67.5°	75°	85°
112.5°	2	2	0	0	0	0	0	1	1	1	2
115°	1	0	0	0	0	0	0	0	0	0	1
117.5°	1	1	0	0	0	0	0	0	0	0	2
120°	1	1	0	0	0	0	0	0	0	0	2
122.5°	1	1	0	0	0	0	0	0	0	0	2
125°	1	1	0	0	0	0	0	0	0	1	2
127.5°	2	2	1	0	0	0	0	0	0	1	2
130°	2	2	1	0	0	0	0	0	1	1	2
132.5°	2	2	1	0	0	0	0	0	0	1	2
135°	1	1	1	0	0	0	0	0	0	0	1
137.5°	1	1	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0	0	0
147.5°	0	0	1	1	1	0	0	0	0	0	0
150°	1	1	1	1	1	0	1	0	0	0	0
152.5°	1	1	1	1	0	0	0	1	1	0	0
155°	1	1	0	1	0	0	0	0	0	1	1
157.5°	0	0	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	161	161	161	161	161	161	161	161	161	161	161
2.5°	160	161	163	165	166	167	166	168	168	168	169
5°	158	160	163	165	149	146	147	149	149	150	150
7.5°	138	142	151	143	146	149	151	154	152	152	151
10°	119	122	117	112	116	149	136	152	153	154	155
12.5°	99	103	98	110	111	117	138	155	150	145	136
15°	112	116	106	105	96	119	114	140	141	139	140
17.5°	85	84	91	99	108	83	112	119	122	111	111
20°	111	112	106	91	109	116	108	104	134	135	135
22.5°	82	82	80	108	105	112	113	122	114	110	111
25°	117	118	112	96	109	102	115	108	129	130	130
27.5°	144	141	117	105	98	117	104	106	100	109	113
30°	167	164	149	124	108	98	94	100	108	111	111
32.5°	177	171	152	134	115	101	80	87	106	116	116
35°	188	181	158	143	111	84	64	74	92	97	96
37.5°	203	194	165	157	97	66	51	58	73	75	75
40°	228	213	180	170	86	47	40	49	55	56	56
42.5°	257	239	197	176	72	37	34	41	49	48	48
45°	289	269	230	176	56	31	32	39	43	43	43
47.5°	328	304	265	172	43	30	32	38	41	42	42
50°	384	348	303	164	37	30	33	36	40	42	42
52.5°	440	406	343	149	36	32	34	38	42	43	43
55°	500	455	375	122	34	30	34	39	41	42	42
57.5°	546	501	403	106	32	29	36	42	40	44	44
60°	589	545	435	97	31	30	38	46	43	45	45
62.5°	630	592	474	87	30	31	42	51	46	48	48
65°	654	637	516	73	29	32	45	56	48	53	52
67.5°	659	662	551	58	27	34	48	60	52	58	57
70°	630	661	550	47	27	35	51	64	55	66	64
72.5°	594	649	512	40	27	37	55	67	56	74	73
75°	568	632	416	35	28	39	57	66	56	74	74
77.5°	535	555	257	31	28	38	57	64	54	69	70
80°	368	315	87	27	27	36	53	58	48	61	62
82.5°	168	122	46	23	26	31	47	50	42	51	49
85°	55	53	38	19	23	22	36	40	31	38	35
87.5°	50	46	30	11	12	12	25	28	21	25	24
90°	52	49	32	11	9	8	20	22	16	17	16
92.5°	55	52	36	12	9	7	16	16	11	11	11
95°	55	53	39	12	9	6	13	12	7	6	5
97.5°	27	28	23	13	9	6	10	9	5	2	2
100°	3	4	13	13	8	5	8	8	3	1	1
102.5°	3	4	11	11	6	3	5	6	2	1	1
105°	3	3	5	6	3	2	2	3	1	1	1
107.5°	3	3	2	2	1	1	1	1	1	1	1



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	2	2	1	1	0	0	0	0	0	2	2
115°	2	1	1	0	0	0	0	0	0	2	2
117.5°	2	2	1	0	0	0	0	0	0	2	2
120°	2	2	1	0	0	0	0	0	0	2	2
122.5°	2	2	1	0	0	0	0	0	0	1	2
125°	2	2	1	0	0	0	0	0	1	2	2
127.5°	2	2	1	0	0	0	0	0	1	2	2
130°	2	2	2	1	1	1	1	1	1	2	2
132.5°	2	2	1	1	1	1	1	0	1	2	2
135°	1	1	1	1	1	0	1	0	1	1	1
137.5°	0	0	0	1	1	0	1	0	1	1	1
140°	0	0	0	1	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	1	0	1	0	0	0	0
147.5°	0	0	0	0	0	0	1	0	0	0	0
150°	0	0	0	0	1	0	1	1	1	1	1
152.5°	0	0	1	1	1	0	0	1	1	1	1
155°	1	1	1	0	0	0	0	0	1	1	1
157.5°	0	0	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245982

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Peachtree City, GA 30269

Scaled Data Report



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Peachtree City, GA 30269

Scaled Data Report





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Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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110° | 3 3 0 1 0 1 0 1 *1* 1 3

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Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





110°	3	3	1	1	1	1	0	0	0	1	1
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Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
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Scaled Data Report



(END OF REPORT)