

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: G3-2106-280-3

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

Test Date: 6/29/2021

Test Information

Test Method: LM-79-08
Report Number: G3-2106-280-3
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-HSS
Description: SDL. (1) AMBER, 500MA LIGHT ENGINE WITH 24 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
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: 945.4 lumens
Efficiency: N/A
Efficacy: 30.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U1 - G0

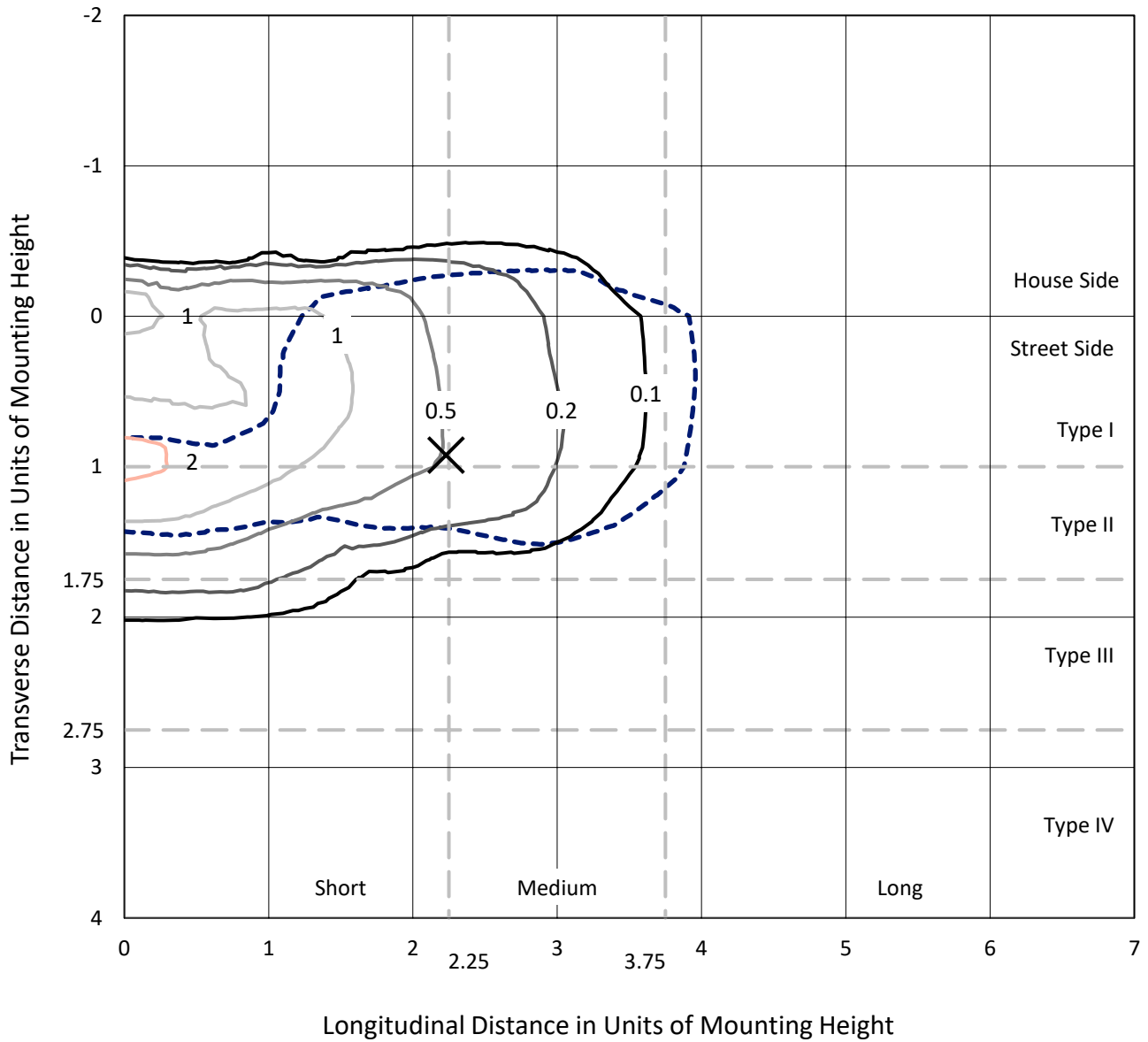
Input Watts (W): 31.3
Input Voltage (V): 120.1
Input Current (Ain): 0.266
Voltage Rise (V): NR
Power Factor: 120.066
Total Harmonic Distortion (THDi): 17.6%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): 24.2
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

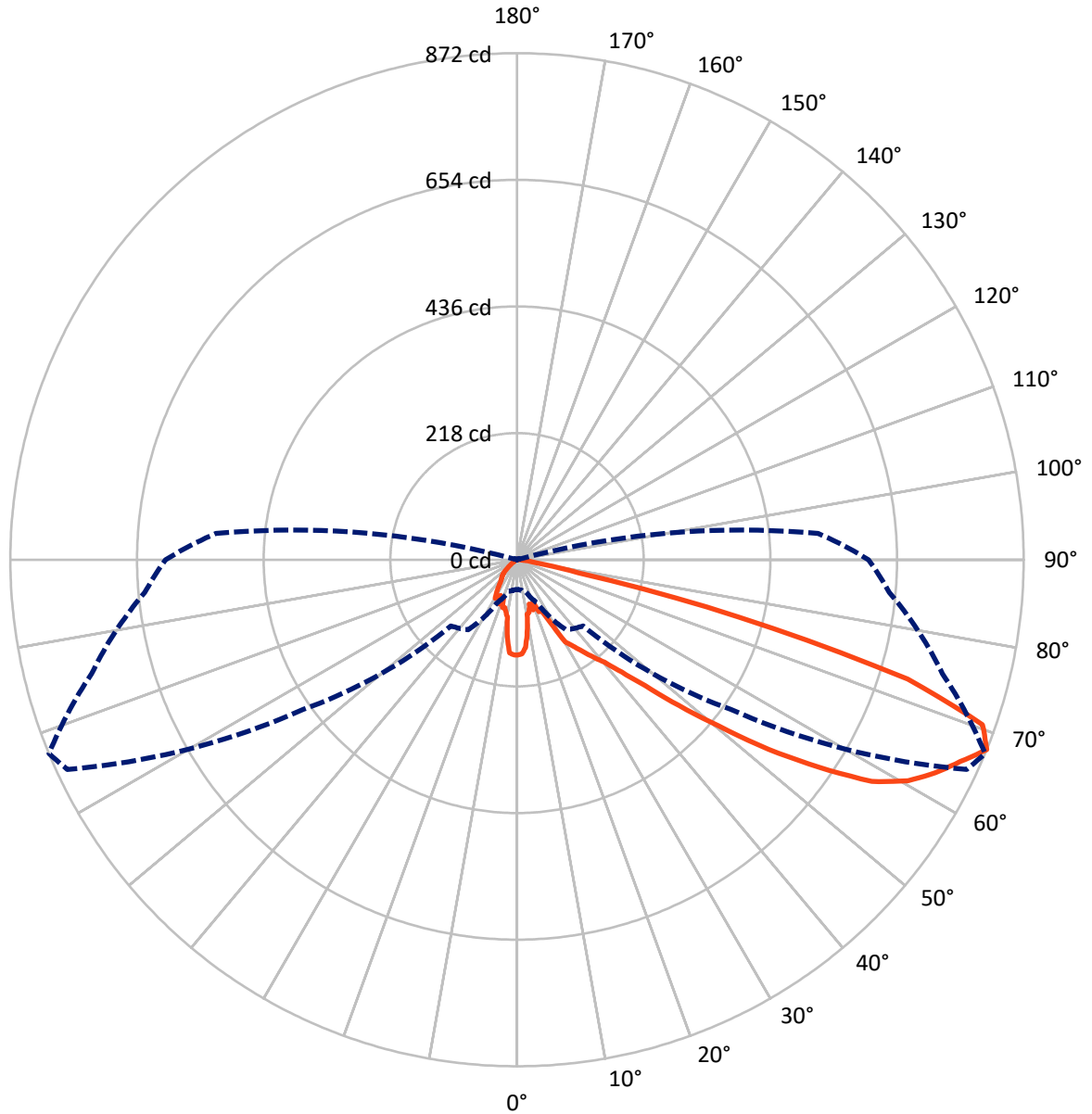
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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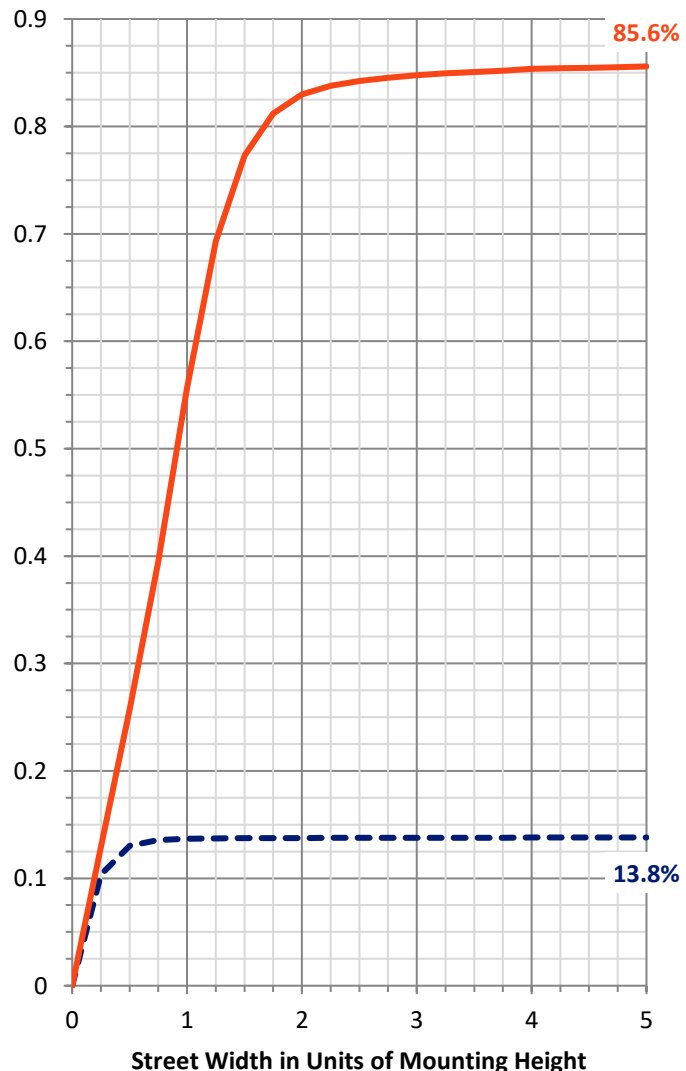
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	132.4	2.2	134.6
	% Fixture	14.0	0.2	14.2
Street Side	Lumens	810.0	0.8	810.8
	% Fixture	85.7	0.1	85.8
Total	Lumens	942.4	3.0	945.4
	% Fixture	99.7	0.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.4	1.3
10°-20°	23.3	2.5
20°-30°	35.2	3.7
30°-40°	81.0	8.6
40°-50°	177.6	18.8
50°-60°	267.1	28.3
60°-70°	233.4	24.7
70°-80°	107.3	11.3
80°-90°	5.2	0.5
90°-100°	0.9	0.1
100°-110°	0.7	0.1
110°-120°	0.4	0.0
120°-130°	0.4	0.0
130°-140°	0.3	0.0
140°-150°	0.2	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	942.4	99.7
0°-180°	945.4	100.0

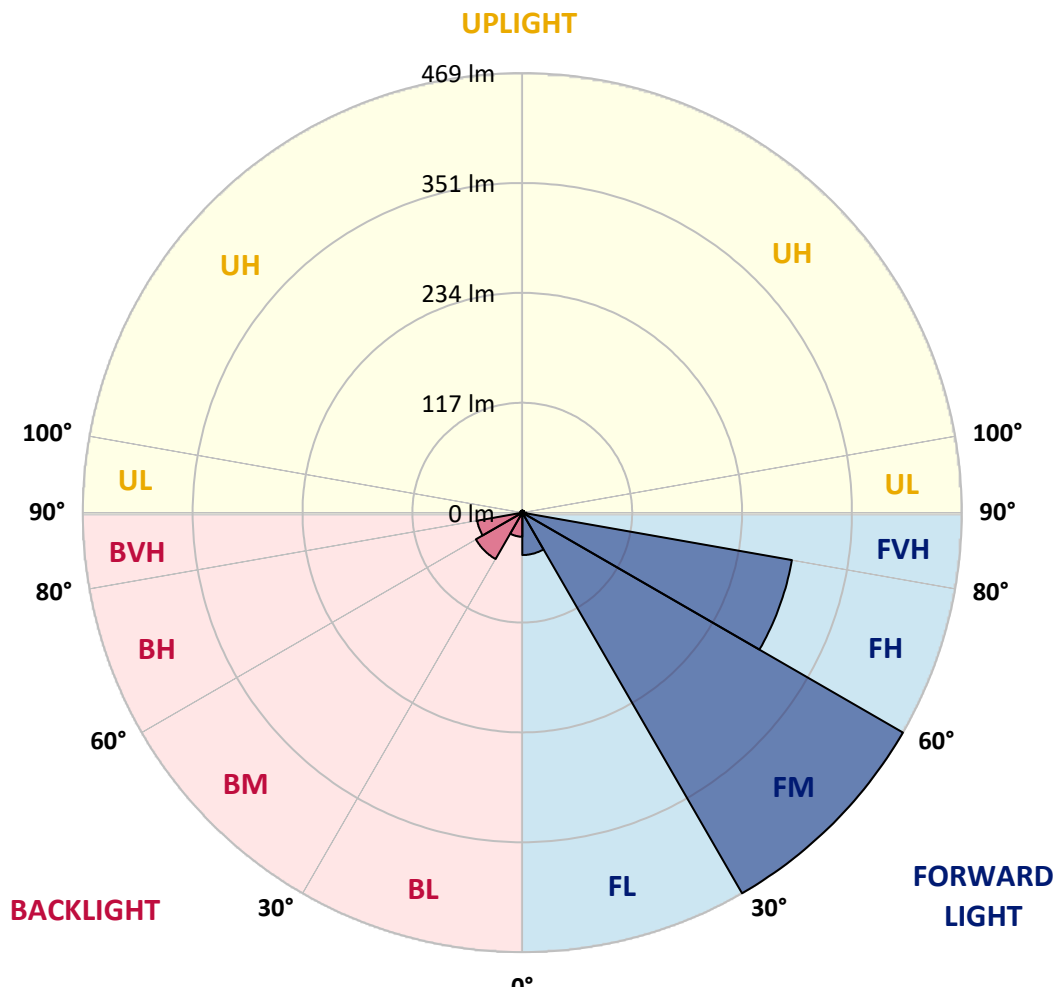


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	45.2	4.8			
FM (30°-60°)	468.6	49.6			
FH (60°-80°)	291.8	30.9			G0/660
FVH (80°-90°)	4.4	0.5			G0/10
BL (0°-30°)	25.7	2.7	B0/110		
BM (30°-60°)	57.1	6.0	B0/220		
BH (60°-80°)	48.8	5.2	B0/110		G0/110
BVH (80°-90°)	0.8	0.1			G0/10
UL (90°-100°)	0.9	0.1		U1/10	
UH (100°-180°)	2.2	0.2		U1/10	

BUG Rating: B0-U1-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67.5°	75°	85°
0°	164	164	164	164	164	164	164	164	164	164	164
2.5°	130	130	131	142	153	158	160	161	162	162	163
5°	122	123	123	123	124	126	127	139	152	158	160
7.5°	95	95	103	115	119	121	123	125	126	130	139
10°	114	115	115	116	101	92	93	94	95	96	118
12.5°	90	90	93	111	105	94	76	93	93	81	94
15°	112	112	111	110	75	94	80	77	79	99	118
17.5°	92	91	91	104	93	69	93	84	91	88	82
20°	112	113	114	91	80	100	79	81	78	105	118
22.5°	94	94	94	106	94	100	88	104	97	79	83
25°	109	118	121	104	101	102	102	85	97	118	125
27.5°	130	130	109	105	112	118	104	114	122	129	149
30°	152	153	151	135	115	112	122	139	164	174	180
32.5°	230	225	209	159	138	138	139	170	177	187	191
35°	299	304	276	221	160	151	162	187	193	208	207
37.5°	382	379	357	278	206	174	178	207	212	230	228
40°	471	468	441	349	258	205	201	234	232	265	256
42.5°	557	553	526	430	321	270	230	262	264	299	287
45°	633	623	599	508	387	338	268	308	309	345	332
47.5°	666	650	641	566	457	411	330	359	375	404	379
50°	628	622	634	598	521	488	412	422	450	483	442
52.5°	534	537	569	572	564	561	502	501	542	562	502
55°	427	437	477	497	552	610	602	591	630	639	559
57.5°	332	342	393	423	492	611	683	697	720	696	595
60°	213	220	287	354	388	537	715	763	773	732	624
62.5°	142	145	174	269	303	404	695	803	808	750	640
65°	81	83	97	157	217	271	615	842	838	761	652
67.5°	51	52	56	82	147	161	449	854	872	758	643
70°	45	46	50	51	102	84	212	794	850	743	621
72.5°	37	37	45	49	68	56	73	621	703	729	596
75°	25	25	33	44	43	40	46	286	394	557	515
77.5°	13	14	19	31	36	28	37	67	108	230	267
80°	9	9	11	19	26	20	25	32	33	47	44
82.5°	4	4	6	10	14	15	14	21	22	21	9
85°	1	1	2	4	5	5	7	9	11	11	4
87.5°	0	0	0	0	1	1	2	2	2	2	1
90°	0	0	0	0	0	1	1	2	2	2	1
92.5°	0	0	0	0	1	1	1	2	2	1	1
95°	0	0	0	0	0	1	1	1	1	1	1
97.5°	0	0	0	0	0	1	1	1	1	1	1
100°	0	0	0	0	0	0	1	1	1	1	1
102.5°	0	0	0	0	0	0	1	1	1	1	1
105°	0	0	0	0	0	0	1	1	1	1	1
107.5°	0	0	0	0	0	0	1	1	1	1	1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	67.5°	75°	85°
112.5°	0	0	0	0	0	0	0	0	0	0	1
115°	0	0	0	0	0	0	0	0	0	1	1
117.5°	0	0	0	0	0	0	0	0	0	1	1
120°	0	0	0	0	0	0	0	0	0	1	1
122.5°	0	0	0	0	0	0	0	0	0	0	1
125°	0	0	0	0	0	0	0	0	0	0	1
127.5°	0	0	0	0	0	0	0	0	0	0	1
130°	0	0	0	0	0	0	0	0	0	0	1
132.5°	0	0	0	0	0	0	0	0	0	0	1
135°	0	0	0	0	0	0	0	0	0	0	0
137.5°	0	0	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	0	0	0	1	0	0	0	0	0
150°	0	0	0	1	1	0	1	0	1	0	1
152.5°	0	0	0	1	1	0	0	0	1	1	1
155°	0	0	0	1	0	0	0	1	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	164	164	164	164	164	164	164	164	164	164	164
2.5°	163	163	163	164	164	164	163	164	163	163	164
5°	161	161	161	161	138	134	134	133	133	133	133
7.5°	139	140	145	133	131	130	129	128	127	127	126
10°	119	119	107	98	97	121	102	116	115	114	117
12.5°	99	100	83	95	93	88	100	100	91	83	83
15°	119	119	102	79	61	82	63	50	39	33	33
17.5°	88	83	87	86	82	43	33	21	18	16	15
20°	119	117	99	60	68	38	15	11	13	14	14
22.5°	81	80	71	86	44	16	9	11	12	9	9
25°	121	118	102	56	31	10	10	8	8	9	9
27.5°	144	134	102	62	15	10	7	7	6	6	6
30°	172	164	132	58	11	7	7	5	6	5	5
32.5°	181	171	133	45	9	7	5	5	4	5	5
35°	194	181	136	28	8	5	4	4	4	4	4
37.5°	212	198	138	16	6	4	3	3	4	3	3
40°	238	219	134	11	5	3	3	3	3	3	3
42.5°	270	246	125	9	5	3	2	2	3	3	2
45°	308	280	112	8	4	2	2	2	2	2	2
47.5°	350	318	91	7	3	2	2	2	2	2	2
50°	407	368	64	6	3	2	1	2	1	1	1
52.5°	468	423	46	5	2	1	1	1	1	1	1
55°	511	460	33	4	2	1	1	1	1	1	1
57.5°	546	489	23	4	2	1	0	1	1	0	0
60°	574	510	16	3	1	0	0	1	0	0	0
62.5°	597	526	12	3	1	0	0	1	0	0	0
65°	611	533	9	3	1	0	0	1	0	0	0
67.5°	605	520	8	2	1	0	0	1	0	0	0
70°	587	493	6	2	1	0	1	1	0	0	0
72.5°	568	457	5	2	1	0	1	1	1	0	0
75°	494	258	4	2	1	0	1	1	1	0	0
77.5°	245	100	3	1	1	0	1	2	1	0	0
80°	37	22	2	1	1	0	2	2	1	0	0
82.5°	7	3	1	1	1	0	2	2	1	1	0
85°	2	1	1	1	1	0	2	2	1	1	0
87.5°	1	1	1	1	1	0	2	2	1	1	0
90°	1	1	1	1	1	0	2	1	1	1	0
92.5°	1	1	1	1	1	0	2	1	1	1	0
95°	1	1	1	1	1	1	1	1	1	1	0
97.5°	1	1	1	1	1	1	1	1	1	1	1
100°	1	1	1	1	1	1	1	1	1	1	1
102.5°	1	1	1	1	1	1	1	1	1	0	0
105°	1	1	1	1	1	1	1	1	1	0	0
107.5°	1	1	1	1	1	1	1	1	1	0	1



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	1	1	1	1	1	1	0	0	0	0	0
115°	1	1	1	1	1	1	1	0	0	0	0
117.5°	1	1	1	1	1	1	1	0	0	0	0
120°	1	1	1	1	1	1	1	1	0	1	1
122.5°	1	1	1	1	1	1	1	1	0	0	0
125°	1	1	1	1	1	1	0	0	0	0	0
127.5°	1	1	1	1	1	1	1	1	1	0	1
130°	1	1	1	1	1	1	1	1	0	0	0
132.5°	1	1	1	1	1	1	1	1	1	0	0
135°	1	1	1	1	1	1	0	0	0	0	0
137.5°	0	1	1	1	1	1	0	0	0	0	0
140°	0	1	1	1	1	1	0	0	0	0	0
142.5°	0	1	1	1	1	1	0	0	0	0	0
145°	0	1	1	1	1	1	0	0	0	0	0
147.5°	0	1	1	1	1	1	0	0	0	0	0
150°	1	1	1	1	1	0	0	0	0	0	0
152.5°	1	1	1	1	1	0	0	0	0	0	0
155°	1	1	1	1	1	0	0	0	0	0	0
157.5°	0	0	1	1	0	0	0	0	0	0	0
160°	0	0	1	1	1	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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Scaled Data Report



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110° | 0 0 0 0 0 0 0 0 1 0 1 1

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

Scaled Data Report





110°	1	1	1	1	1	1	0	1	0	0	0
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Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)