

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: CORELITE

Report Number: P520703

Luminaire Tested: **8WSLA-175-L835-UPL15-UNV-U**

Issue Date: 5/3/2021

Test Information

Test Method: LM-79-08
Report Number: P520703
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-174-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 8WSLA-175-L835-UPL15-UNV-U
Description: 8 FOOT, 3500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

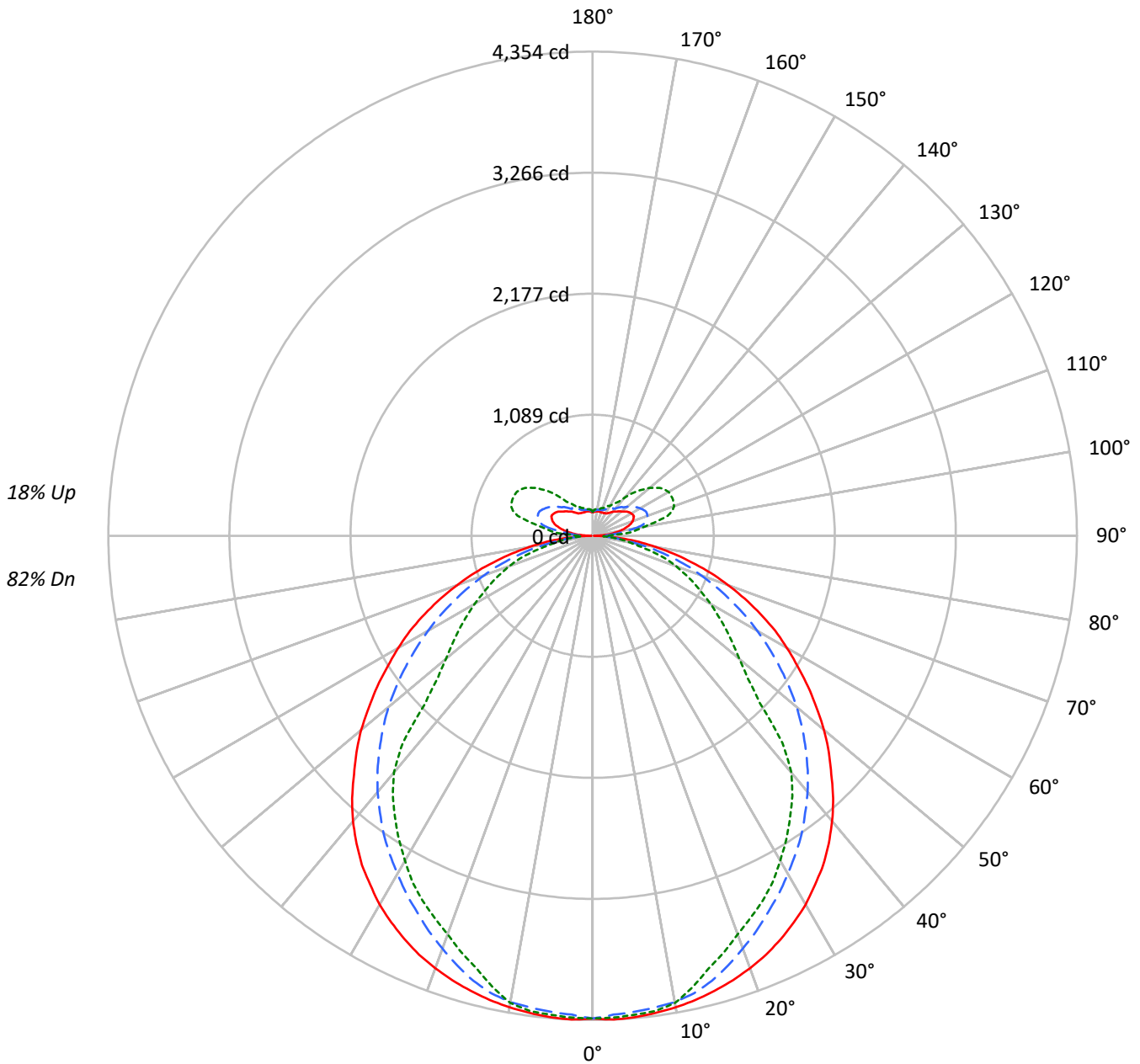
Lumens per Lamp: N/A
Luminaire Lumens: 14060.0 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 119
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	115	115	115	115	110	110	110	110	101	101	101	93	93	93	86	86	86	82																			
1	105	100	96	92	100	96	93	89	89	86	83	82	80	78	76	74	72	69																			
2	96	88	81	76	91	84	78	73	78	73	69	72	68	65	67	64	61	58																			
3	87	77	69	63	83	74	67	61	69	63	58	64	59	55	59	55	52	49																			
4	80	68	60	53	76	66	58	52	61	55	50	57	51	47	53	48	45	42																			
5	73	61	52	46	70	59	51	45	55	48	43	51	45	41	48	43	39	36																			
6	68	55	46	40	65	53	45	39	50	43	38	46	40	36	43	38	34	32																			
7	63	50	41	35	60	48	40	35	45	38	33	42	36	32	39	34	30	28																			
8	58	45	37	32	56	44	36	31	41	35	30	39	33	29	36	31	27	25																			
9	55	42	34	28	52	40	33	28	38	31	27	36	30	26	33	28	25	23																			
10	51	38	31	26	49	37	30	25	35	29	24	33	27	23	31	26	23	21																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11682	11682	11682
5°	11739	11608	11679
10°	11766	11634	11658
15°	11800	11543	11224
20°	11852	11310	10919
25°	11883	11086	10746
30°	11903	10904	10480
35°	11875	10761	10168
40°	11770	10564	9760
45°	11545	10305	8093
50°	11373	10027	7207
55°	11093	9626	6858
60°	10853	9195	6588
65°	10597	8691	6392
70°	10185	8141	6270
75°	9613	7462	5768
80°	8802	6278	5117
85°	7886	5437	5165



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.5	2.9
10°-20°	1168.8	8.3
20°-30°	1744.3	12.4
30°-40°	2078.3	14.8
40°-50°	2067.3	14.7
50°-60°	1771.7	12.6
60°-70°	1334.3	9.5
70°-80°	772.8	5.5
80°-90°	232.3	1.7
90°-100°	249.3	1.8
100°-110°	512.0	3.6
110°-120°	541.4	3.9
120°-130°	451.7	3.2
130°-140°	315.5	2.2
140°-150°	196.4	1.4
150°-160°	121.7	0.9
160°-170°	68.6	0.5
170°-180°	22.1	0.2
0°-30°	3324.5	23.6
0°-40°	5402.8	38.4
0°-60°	9241.8	65.7
0°-90°	11581.2	82.4
90°-120°	1302.8	9.3
90°-150°	2266.4	16.1
90°-180°	2479.0	17.6
0°-180°	14060.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4341	4341	4341	4341	4341	
5°	4346	4332	4297	4328	4324	413
15°	4236	4231	4143	4073	4029	1197
25°	4002	3945	3734	3641	3619	1845
35°	3615	3518	3276	3148	3095	2258
45°	3034	2959	2708	2439	2127	2345
55°	2364	2329	2052	1629	1462	2114
65°	1664	1625	1365	1061	1004	1645
75°	925	894	718	572	555	979
85°	255	225	176	167	167	272
90°	13	62	106	132	141	26
95°	141	189	216	317	343	135
105°	330	343	493	660	700	342
115°	410	348	524	722	792	399
125°	379	335	454	665	748	336
135°	308	335	365	493	568	241
145°	251	291	317	339	361	159
155°	229	242	260	282	286	106
165°	225	233	242	251	251	64
175°	220	225	229	233	238	21
180°	216	216	216	216	216	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4341.3	4341.3	4341.3	4341.3	4341.3
2.5°	4354.5	4345.7	4310.5	4345.7	4336.9
5°	4345.7	4332.5	4297.3	4328.1	4323.7
7.5°	4328.1	4319.3	4279.7	4314.9	4310.5
10°	4306.1	4292.9	4257.7	4284.1	4266.5
12.5°	4275.3	4266.5	4213.7	4191.6	4156.4
15°	4235.7	4231.3	4143.2	4072.8	4028.7
17.5°	4191.6	4174.0	4050.7	3967.1	3927.5
20°	4138.8	4112.4	3949.5	3852.6	3813.0
22.5°	4077.2	4037.5	3848.2	3755.7	3716.1
25°	4002.3	3945.1	3733.7	3641.3	3619.2
27.5°	3918.7	3852.6	3628.1	3535.6	3509.2
30°	3830.6	3746.9	3509.2	3421.1	3372.7
32.5°	3720.5	3641.3	3394.7	3293.4	3240.6
35°	3614.8	3518.0	3275.8	3148.1	3095.3
37.5°	3487.2	3390.3	3139.3	3011.6	2950.0
40°	3350.7	3253.8	3007.2	2857.5	2778.3
42.5°	3201.0	3112.9	2861.9	2681.4	2527.3
45°	3033.7	2958.8	2707.8	2439.3	2126.6
47.5°	2879.5	2809.1	2553.7	2205.9	1884.5
50°	2716.6	2650.6	2395.2	1985.7	1721.6
52.5°	2536.1	2487.7	2223.5	1796.4	1585.1
55°	2364.4	2329.2	2051.8	1629.1	1461.8
57.5°	2183.9	2148.7	1880.1	1470.6	1338.5
60°	2016.6	1981.3	1708.4	1329.7	1224.0
62.5°	1849.3	1800.8	1541.0	1193.2	1105.1
65°	1664.3	1624.7	1364.9	1061.1	1003.9
67.5°	1479.4	1444.2	1202.0	937.8	898.2
70°	1294.5	1263.7	1034.7	819.0	796.9
72.5°	1114.0	1074.3	885.0	700.1	691.3
75°	924.6	893.8	717.7	572.4	554.8
77.5°	744.1	717.7	563.6	435.9	422.7
80°	568.0	541.6	405.1	317.0	330.2
82.5°	418.3	383.1	273.0	246.6	259.8
85°	255.4	224.6	176.1	167.3	167.3
87.5°	88.1	83.7	79.3	92.5	96.9
90°	13.2	61.6	105.7	132.1	140.9
92.5°	74.9	110.1	145.3	171.7	180.5
95°	140.9	189.3	215.7	317.0	343.4
97.5°	193.7	251.0	281.8	374.3	400.7
100°	246.6	299.4	396.3	444.7	475.5
102.5°	290.6	330.2	466.7	563.6	581.2
105°	330.2	343.4	493.1	660.4	700.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	396.3	352.2	528.4	717.7	788.1
115°	409.5	347.8	524.0	722.1	792.5
117.5°	409.5	347.8	510.7	722.1	792.5
120°	400.7	352.2	493.1	713.3	788.1
122.5°	391.9	343.4	475.5	695.7	770.5
125°	378.7	334.6	453.5	664.8	748.5
127.5°	356.6	343.4	431.5	625.2	708.9
130°	339.0	347.8	405.1	585.6	669.3
132.5°	325.8	339.0	378.7	541.6	616.4
135°	308.2	334.6	365.4	493.1	568.0
137.5°	295.0	321.4	343.4	449.1	510.7
140°	281.8	312.6	321.4	391.9	444.7
142.5°	264.2	299.4	303.8	365.4	387.5
145°	251.0	290.6	317.0	339.0	361.0
147.5°	237.8	273.0	308.2	312.6	334.6
150°	233.4	255.4	295.0	299.4	308.2
152.5°	229.0	246.6	273.0	299.4	303.8
155°	229.0	242.2	259.8	281.8	286.2
157.5°	224.6	242.2	251.0	268.6	273.0
160°	224.6	237.8	246.6	259.8	264.2
162.5°	224.6	237.8	242.2	255.4	259.8
165°	224.6	233.4	242.2	251.0	251.0
167.5°	224.6	233.4	237.8	246.6	246.6
170°	224.6	229.0	237.8	242.2	242.2
172.5°	220.1	229.0	233.4	242.2	242.2
175°	220.1	224.6	229.0	233.4	237.8
177.5°	211.3	224.6	229.0	233.4	229.0
180°	215.7	215.7	215.7	215.7	215.7



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	361.0	347.8	510.7	695.7	752.9
110°	383.1	352.2	524.0	708.9	779.3



(END OF REPORT)