

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: P520686

Luminaire Tested: **8WSLA-150-L850-UPL8-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520686
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-174-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 8WSLA-150-L850-UPL8-UNV-U
Description: 8 FOOT, 3000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

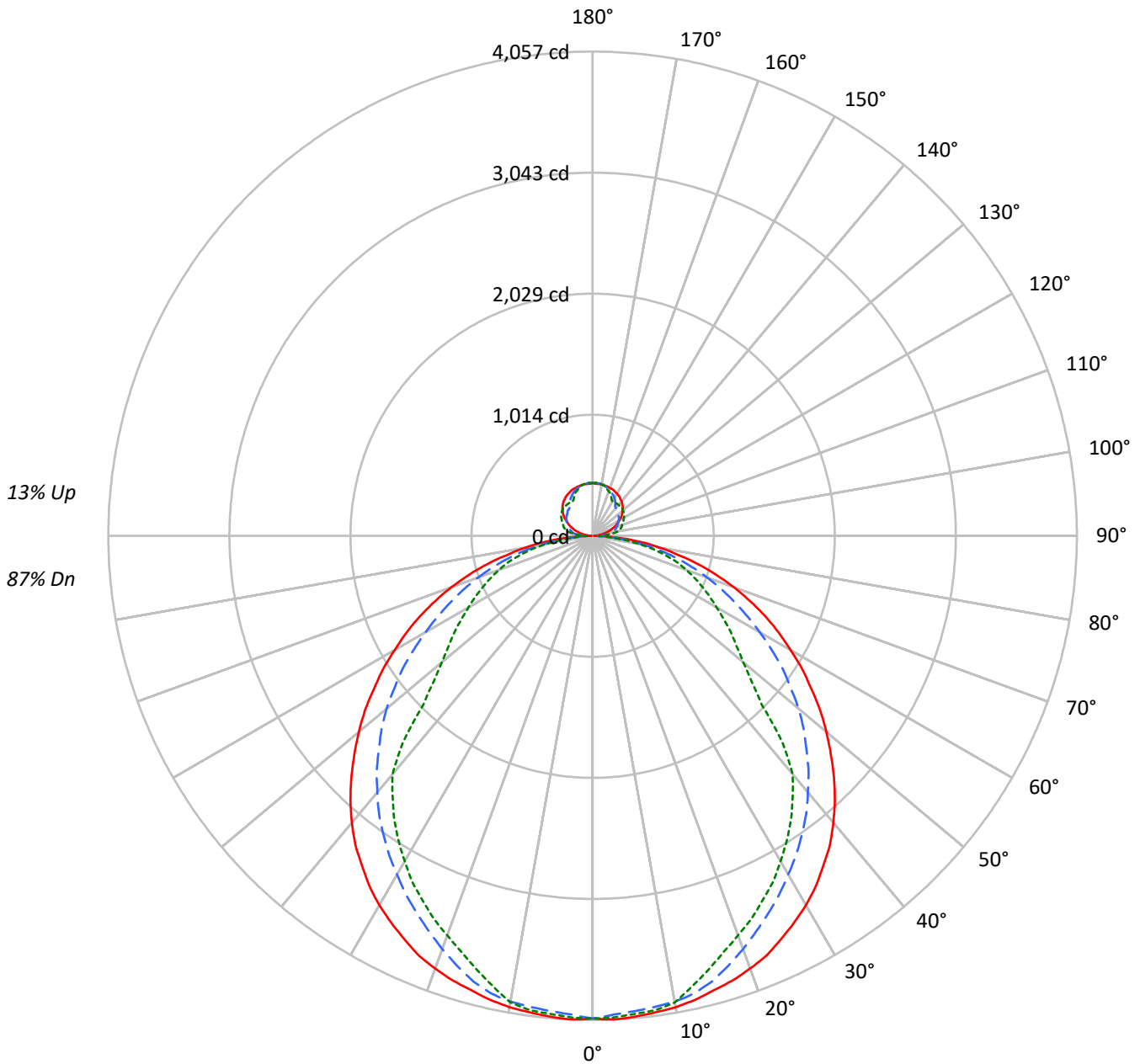
Lumens per Lamp: N/A
Luminaire Lumens: 12590.0 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 93.6
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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87																			
1	106	101	97	93	102	98	94	90	91	88	85	85	83	80	79	78	76	73																			
2	96	88	82	76	92	85	79	74	80	75	70	74	70	67	70	66	64	61																			
3	88	78	70	63	84	75	68	62	70	64	59	66	61	56	62	58	54	51																			
4	80	69	60	54	77	67	59	53	62	56	50	59	53	48	55	50	46	44																			
5	74	61	53	46	71	60	51	45	56	49	44	53	47	42	50	45	40	38																			
6	68	55	47	40	66	54	46	40	51	44	38	48	42	37	45	40	36	33																			
7	63	50	42	36	61	49	41	35	46	39	34	43	37	33	41	36	32	30																			
8	59	46	37	32	57	44	37	31	42	35	30	40	34	29	38	32	28	26																			
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24																			
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	32	27	23	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10886	10886	10886
5°	10928	10802	10865
10°	10959	10832	10847
15°	10978	10768	10476
20°	11052	10552	10201
25°	11078	10353	10007
30°	11105	10183	9785
35°	11071	10039	9523
40°	11021	9856	9160
45°	10876	9636	7642
50°	10698	9431	6896
55°	10487	9121	6636
60°	10306	8709	6454
65°	10155	8339	6449
70°	9892	8014	6549
75°	9441	7625	6597
80°	8839	6856	6134
85°	8086	4854	4134



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.0	3.0
10°-20°	1088.8	8.6
20°-30°	1626.9	12.9
30°-40°	1942.1	15.4
40°-50°	1942.3	15.4
50°-60°	1680.9	13.4
60°-70°	1290.2	10.2
70°-80°	790.6	6.3
80°-90°	222.6	1.8
90°-100°	125.8	1.0
100°-110°	199.7	1.6
110°-120°	233.4	1.9
120°-130°	252.0	2.0
130°-140°	248.3	2.0
140°-150°	219.7	1.7
150°-160°	180.8	1.4
160°-170°	121.0	1.0
170°-180°	42.1	0.3
0°-30°	3098.7	24.6
0°-40°	5040.8	40.0
0°-60°	8663.9	68.8
0°-90°	10967.3	87.1
90°-120°	558.9	4.4
90°-150°	1278.9	10.2
90°-180°	1623.0	12.9
0°-180°	12590.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4046	4046	4046	4046	4046	
5°	4046	4034	3999	4028	4022	385
15°	3941	3935	3865	3795	3760	1115
25°	3731	3685	3487	3394	3370	1721
35°	3370	3283	3056	2945	2899	2110
45°	2858	2776	2532	2305	2008	2204
55°	2235	2183	1944	1554	1414	2004
65°	1595	1537	1310	1054	1013	1575
75°	908	862	733	634	634	958
85°	262	215	157	134	134	274
90°	12	41	64	82	87	18
95°	47	99	134	140	140	46
105°	134	140	198	233	244	141
115°	221	186	233	268	285	216
125°	297	239	268	308	320	264
135°	355	320	297	326	343	274
145°	396	378	332	326	338	247
155°	419	413	390	372	367	193
165°	431	437	425	425	425	122
175°	437	442	442	448	448	42
180°	442	442	442	442	442	



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CATALOG NUMBER: 8WSLA-150-L850-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4045.5	4045.5	4045.5	4045.5	4045.5
2.5°	4057.1	4045.5	4016.4	4045.5	4039.6
5°	4045.5	4033.8	3998.9	4028.0	4022.2
7.5°	4028.0	4016.4	3981.4	4016.4	4010.5
10°	4010.5	3998.9	3964.0	3987.3	3969.8
12.5°	3981.4	3969.8	3929.0	3899.9	3865.0
15°	3940.7	3934.9	3865.0	3795.2	3760.2
17.5°	3905.8	3888.3	3777.7	3696.2	3655.5
20°	3859.2	3830.1	3684.6	3591.4	3562.3
22.5°	3806.8	3760.2	3585.6	3498.3	3475.0
25°	3731.1	3684.6	3486.7	3393.5	3370.2
27.5°	3655.5	3597.3	3387.7	3294.6	3271.3
30°	3574.0	3492.5	3277.1	3189.8	3149.1
32.5°	3480.8	3399.4	3172.3	3073.4	3026.8
35°	3370.2	3282.9	3055.9	2945.3	2898.8
37.5°	3265.5	3172.3	2939.5	2817.3	2753.2
40°	3137.4	3044.3	2805.6	2671.8	2607.7
42.5°	3003.5	2916.2	2677.6	2514.6	2357.4
45°	2858.0	2776.5	2532.1	2305.0	2008.2
47.5°	2706.7	2636.8	2398.2	2089.7	1804.5
50°	2555.3	2485.5	2252.7	1885.9	1647.3
52.5°	2404.0	2345.8	2089.7	1717.1	1519.2
55°	2235.2	2182.8	1944.2	1554.2	1414.5
57.5°	2083.9	2031.5	1775.3	1420.3	1303.9
60°	1915.0	1868.5	1618.2	1286.4	1199.1
62.5°	1757.9	1705.5	1461.0	1170.0	1106.0
65°	1594.9	1536.7	1309.7	1053.6	1012.8
67.5°	1426.1	1367.9	1164.2	948.8	925.5
70°	1257.3	1210.7	1018.6	844.0	832.4
72.5°	1082.7	1030.3	873.1	745.1	745.1
75°	908.0	861.5	733.4	634.5	634.5
77.5°	727.6	704.3	587.9	518.1	523.9
80°	570.4	541.3	442.4	395.8	395.8
82.5°	419.1	384.2	296.9	261.9	273.6
85°	261.9	215.4	157.2	133.9	133.9
87.5°	81.5	64.0	46.6	52.4	52.4
90°	11.6	40.7	64.0	81.5	87.3
92.5°	29.1	75.7	93.1	110.6	116.4
95°	46.6	99.0	133.9	139.7	139.7
97.5°	64.0	110.6	163.0	186.3	186.3
100°	87.3	116.4	174.6	209.5	215.4
102.5°	110.6	128.1	186.3	221.2	232.8
105°	133.9	139.7	197.9	232.8	244.5



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CATALOG NUMBER: 8WSLA-150-L850-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	197.9	174.6	221.2	261.9	273.6
115°	221.2	186.3	232.8	267.8	285.2
117.5°	238.7	203.7	244.5	279.4	291.0
120°	256.1	215.4	250.3	291.0	302.7
122.5°	279.4	227.0	261.9	296.9	314.3
125°	296.9	238.7	267.8	308.5	320.1
127.5°	314.3	261.9	273.6	314.3	326.0
130°	326.0	285.2	279.4	320.1	331.8
132.5°	343.4	302.7	285.2	326.0	337.6
135°	355.1	320.1	296.9	326.0	343.4
137.5°	366.7	337.6	296.9	326.0	337.6
140°	378.4	355.1	302.7	326.0	337.6
142.5°	384.2	366.7	308.5	326.0	337.6
145°	395.8	378.4	331.8	326.0	337.6
147.5°	401.6	390.0	349.2	326.0	337.6
150°	407.5	401.6	366.7	331.8	331.8
152.5°	413.3	407.5	378.4	355.1	343.4
155°	419.1	413.3	390.0	372.5	366.7
157.5°	424.9	424.9	401.6	390.0	384.2
160°	424.9	430.7	413.3	401.6	395.8
162.5°	430.7	436.6	419.1	413.3	407.5
165°	430.7	436.6	424.9	424.9	424.9
167.5°	436.6	442.4	436.6	430.7	430.7
170°	436.6	442.4	436.6	436.6	436.6
172.5°	436.6	442.4	442.4	442.4	442.4
175°	436.6	442.4	442.4	448.2	448.2
177.5°	436.6	442.4	442.4	442.4	442.4
180°	442.4	442.4	442.4	442.4	442.4



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	157.2	151.3	203.7	244.5	256.1
110°	174.6	163.0	215.4	250.3	261.9



(END OF REPORT)