

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: P520677

Luminaire Tested: **8WSLA-150-L830-UPL8-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520677
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-L830-UPL8-UNV-U
Description: 8 FOOT, 3000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

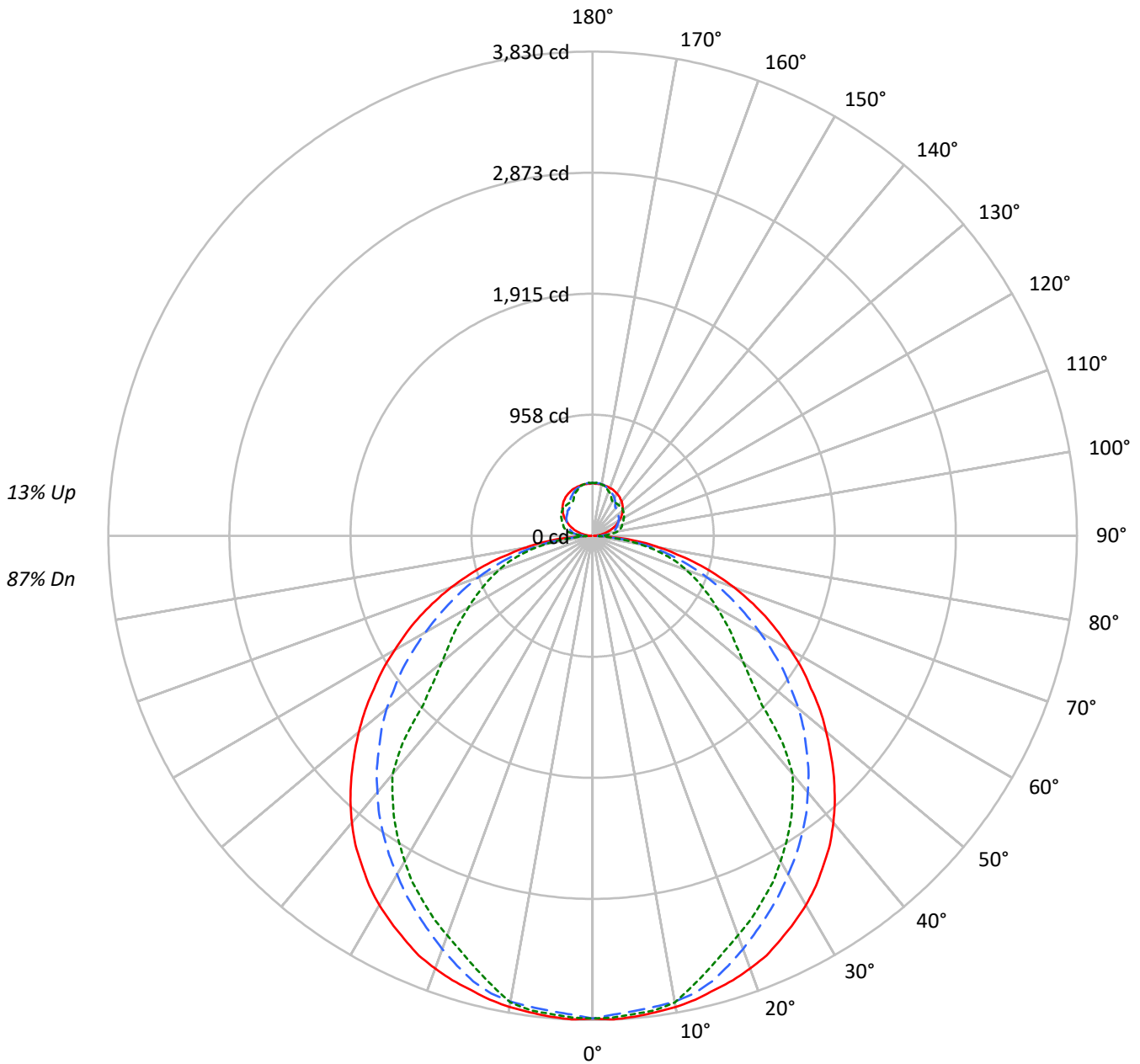
Lumens per Lamp: N/A
Luminaire Lumens: 11884.0 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

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									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°	10276	10276	10276
5°	10315	10196	10256
10°	10344	10224	10239
15°	10363	10164	9888
20°	10432	9960	9629
25°	10457	9772	9446
30°	10483	9612	9236
35°	10451	9476	8989
40°	10403	9303	8647
45°	10267	9096	7214
50°	10098	8902	6509
55°	9899	8610	6264
60°	9729	8220	6091
65°	9586	7871	6087
70°	9338	7565	6182
75°	8911	7198	6227
80°	8345	6471	5790
85°	7632	4579	3903



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.5	3.0
10°-20°	1027.8	8.6
20°-30°	1535.7	12.9
30°-40°	1833.2	15.4
40°-50°	1833.3	15.4
50°-60°	1586.6	13.4
60°-70°	1217.8	10.2
70°-80°	746.2	6.3
80°-90°	210.1	1.8
90°-100°	118.7	1.0
100°-110°	188.5	1.6
110°-120°	220.3	1.9
120°-130°	237.9	2.0
130°-140°	234.4	2.0
140°-150°	207.4	1.7
150°-160°	170.6	1.4
160°-170°	114.2	1.0
170°-180°	39.8	0.3
0°-30°	2924.9	24.6
0°-40°	4758.1	40.0
0°-60°	8178.1	68.8
0°-90°	10352.2	87.1
90°-120°	527.5	4.4
90°-150°	1207.1	10.2
90°-180°	1532.0	12.9
0°-180°	11884.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3819	3819	3819	3819	3819	
5°	3819	3808	3775	3802	3797	363
15°	3720	3714	3648	3582	3549	1052
25°	3522	3478	3291	3203	3181	1625
35°	3181	3099	2885	2780	2736	1992
45°	2698	2621	2390	2176	1896	2080
55°	2110	2060	1835	1467	1335	1891
65°	1506	1450	1236	994	956	1487
75°	857	813	692	599	599	904
85°	247	203	148	126	126	258
90°	11	38	60	77	82	17
95°	44	93	126	132	132	43
105°	126	132	187	220	231	133
115°	209	176	220	253	269	204
125°	280	225	253	291	302	250
135°	335	302	280	308	324	259
145°	374	357	313	308	319	233
155°	396	390	368	352	346	183
165°	407	412	401	401	401	115
175°	412	418	418	423	423	39
180°	418	418	418	418	418	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3818.6	3818.6	3818.6	3818.6	3818.6
2.5°	3829.6	3818.6	3791.1	3818.6	3813.1
5°	3818.6	3807.6	3774.7	3802.1	3796.6
7.5°	3802.1	3791.1	3758.2	3791.1	3785.6
10°	3785.6	3774.7	3741.7	3763.7	3747.2
12.5°	3758.2	3747.2	3708.7	3681.2	3648.3
15°	3719.7	3714.2	3648.3	3582.3	3549.4
17.5°	3686.7	3670.3	3565.9	3488.9	3450.5
20°	3642.8	3615.3	3478.0	3390.0	3362.6
22.5°	3593.3	3549.4	3384.6	3302.1	3280.2
25°	3521.9	3478.0	3291.1	3203.2	3181.3
27.5°	3450.5	3395.5	3197.7	3109.8	3087.9
30°	3373.6	3296.6	3093.3	3010.9	2972.5
32.5°	3285.7	3208.7	2994.4	2901.0	2857.1
35°	3181.3	3098.8	2884.6	2780.2	2736.2
37.5°	3082.4	2994.4	2774.7	2659.3	2598.9
40°	2961.5	2873.6	2648.3	2521.9	2461.5
42.5°	2835.1	2752.7	2527.4	2373.6	2225.2
45°	2697.8	2620.8	2390.1	2175.8	1895.6
47.5°	2554.9	2489.0	2263.7	1972.5	1703.3
50°	2412.0	2346.1	2126.3	1780.2	1554.9
52.5°	2269.2	2214.2	1972.5	1620.8	1434.0
55°	2109.9	2060.4	1835.1	1467.0	1335.1
57.5°	1967.0	1917.5	1675.8	1340.6	1230.7
60°	1807.7	1763.7	1527.4	1214.3	1131.8
62.5°	1659.3	1609.9	1379.1	1104.4	1043.9
65°	1505.5	1450.5	1236.2	994.5	956.0
67.5°	1346.1	1291.2	1098.9	895.6	873.6
70°	1186.8	1142.8	961.5	796.7	785.7
72.5°	1022.0	972.5	824.2	703.3	703.3
75°	857.1	813.2	692.3	598.9	598.9
77.5°	686.8	664.8	554.9	489.0	494.5
80°	538.5	511.0	417.6	373.6	373.6
82.5°	395.6	362.6	280.2	247.2	258.2
85°	247.2	203.3	148.3	126.4	126.4
87.5°	76.9	60.4	44.0	49.4	49.4
90°	11.0	38.5	60.4	76.9	82.4
92.5°	27.5	71.4	87.9	104.4	109.9
95°	44.0	93.4	126.4	131.9	131.9
97.5°	60.4	104.4	153.8	175.8	175.8
100°	82.4	109.9	164.8	197.8	203.3
102.5°	104.4	120.9	175.8	208.8	219.8
105°	126.4	131.9	186.8	219.8	230.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	186.8	164.8	208.8	247.2	258.2
115°	208.8	175.8	219.8	252.7	269.2
117.5°	225.3	192.3	230.8	263.7	274.7
120°	241.8	203.3	236.3	274.7	285.7
122.5°	263.7	214.3	247.2	280.2	296.7
125°	280.2	225.3	252.7	291.2	302.2
127.5°	296.7	247.2	258.2	296.7	307.7
130°	307.7	269.2	263.7	302.2	313.2
132.5°	324.2	285.7	269.2	307.7	318.7
135°	335.2	302.2	280.2	307.7	324.2
137.5°	346.1	318.7	280.2	307.7	318.7
140°	357.1	335.2	285.7	307.7	318.7
142.5°	362.6	346.1	291.2	307.7	318.7
145°	373.6	357.1	313.2	307.7	318.7
147.5°	379.1	368.1	329.7	307.7	318.7
150°	384.6	379.1	346.1	313.2	313.2
152.5°	390.1	384.6	357.1	335.2	324.2
155°	395.6	390.1	368.1	351.6	346.1
157.5°	401.1	401.1	379.1	368.1	362.6
160°	401.1	406.6	390.1	379.1	373.6
162.5°	406.6	412.1	395.6	390.1	384.6
165°	406.6	412.1	401.1	401.1	401.1
167.5°	412.1	417.6	412.1	406.6	406.6
170°	412.1	417.6	412.1	412.1	412.1
172.5°	412.1	417.6	417.6	417.6	417.6
175°	412.1	417.6	417.6	423.1	423.1
177.5°	412.1	417.6	417.6	417.6	417.6
180°	417.6	417.6	417.6	417.6	417.6



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	148.3	142.9	192.3	230.8	241.8
110°	164.8	153.8	203.3	236.3	247.2



(END OF REPORT)