

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: P520676

Luminaire Tested: **8WSLA-150-L830-UPL15-UNV-U**

Issue Date: 5/3/2021

Test Information

Test Method: LM-79-08
Report Number: P520676
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-150-L830-UPL15-UNV-U
Description: 8 FOOT, 3000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

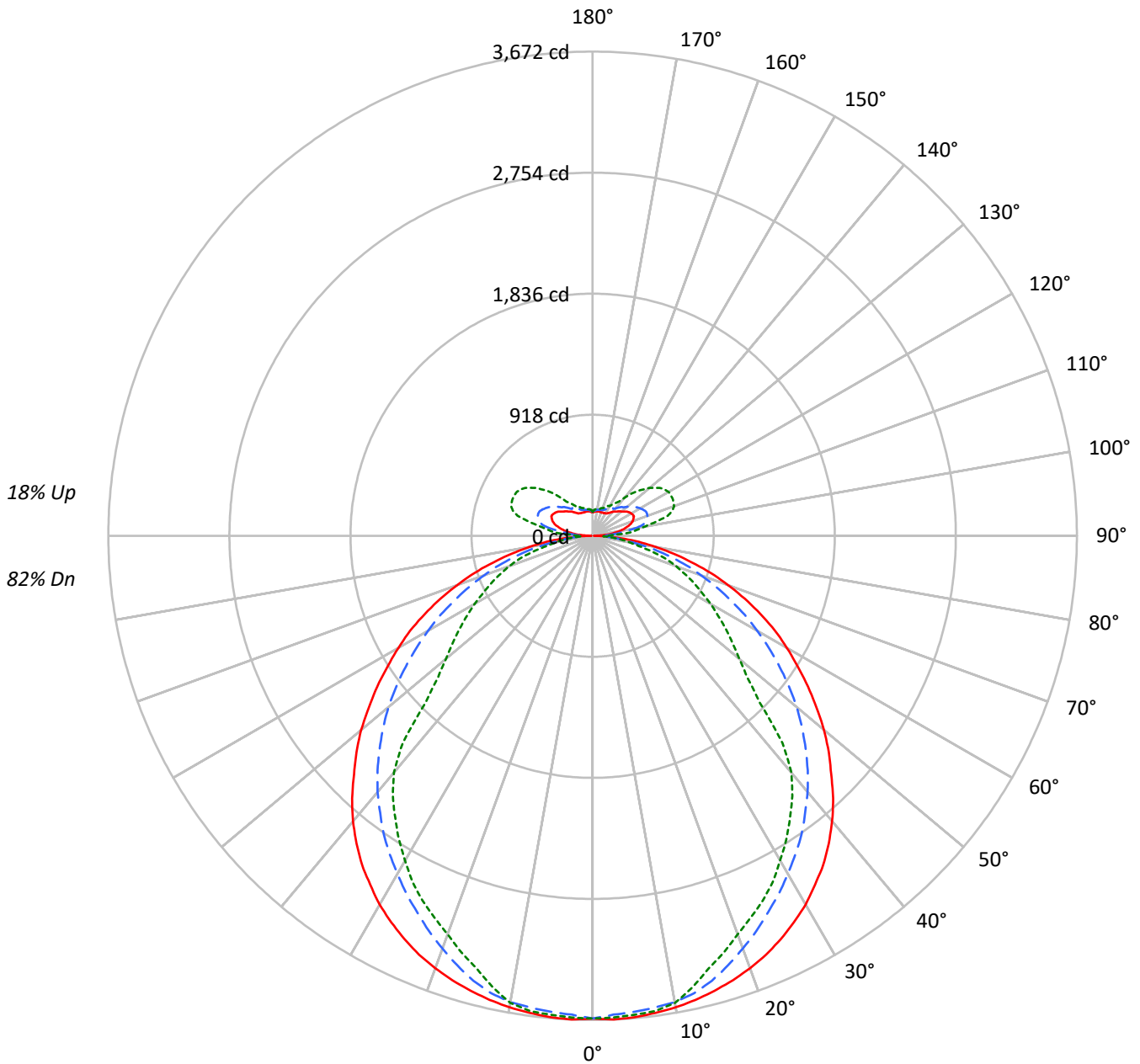
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11857.0 lumens
Efficiency: N/A
Efficacy: 126.7 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): 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	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°	9852	9852	9852
5°	9900	9789	9850
10°	9923	9811	9832
15°	9951	9734	9465
20°	9995	9538	9208
25°	10022	9349	9062
30°	10038	9195	8838
35°	10015	9075	8575
40°	9926	8909	8231
45°	9736	8691	6825
50°	9591	8456	6078
55°	9355	8118	5783
60°	9153	7754	5555
65°	8937	7330	5391
70°	8589	6866	5288
75°	8108	6292	4865
80°	7423	5294	4316
85°	6651	4585	4357



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.0	2.9
10°-20°	985.6	8.3
20°-30°	1471.0	12.4
30°-40°	1752.7	14.8
40°-50°	1743.4	14.7
50°-60°	1494.1	12.6
60°-70°	1125.3	9.5
70°-80°	651.7	5.5
80°-90°	195.9	1.7
90°-100°	210.3	1.8
100°-110°	431.8	3.6
110°-120°	456.6	3.9
120°-130°	380.9	3.2
130°-140°	266.1	2.2
140°-150°	165.6	1.4
150°-160°	102.7	0.9
160°-170°	57.8	0.5
170°-180°	18.6	0.2
0°-30°	2803.6	23.6
0°-40°	4556.3	38.4
0°-60°	7793.8	65.7
0°-90°	9766.6	82.4
90°-120°	1098.6	9.3
90°-150°	1911.2	16.1
90°-180°	2090.0	17.6
0°-180°	11857.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3661	3661	3661	3661	3661	
5°	3665	3654	3624	3650	3646	349
15°	3572	3568	3494	3435	3398	1009
25°	3375	3327	3149	3071	3052	1556
35°	3048	2967	2762	2655	2610	1904
45°	2558	2495	2284	2057	1793	1978
55°	1994	1964	1730	1374	1233	1783
65°	1404	1370	1151	895	847	1387
75°	780	754	605	483	468	826
85°	215	189	148	141	141	230
90°	11	52	89	111	119	22
95°	119	160	182	267	290	114
105°	278	290	416	557	590	289
115°	345	293	442	609	668	336
125°	319	282	382	561	631	284
135°	260	282	308	416	479	203
145°	212	245	267	286	304	134
155°	193	204	219	238	241	89
165°	189	197	204	212	212	54
175°	186	189	193	197	200	18
180°	182	182	182	182	182	



TEST NUMBER: P520676

CATALOG NUMBER: 8WSLA-150-L830-UPL15-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3661.1	3661.1	3661.1	3661.1	3661.1
2.5°	3672.3	3664.8	3635.1	3664.8	3657.4
5°	3664.8	3653.7	3624.0	3650.0	3646.3
7.5°	3650.0	3642.5	3609.1	3638.8	3635.1
10°	3631.4	3620.3	3590.6	3612.8	3598.0
12.5°	3605.4	3598.0	3553.4	3534.9	3505.2
15°	3572.0	3568.3	3494.0	3434.6	3397.5
17.5°	3534.9	3520.0	3416.0	3345.5	3312.1
20°	3490.3	3468.0	3330.6	3249.0	3215.5
22.5°	3438.3	3404.9	3245.2	3167.3	3133.9
25°	3375.2	3326.9	3148.7	3070.7	3052.2
27.5°	3304.7	3249.0	3059.6	2981.6	2959.3
30°	3230.4	3159.8	2959.3	2885.1	2844.2
32.5°	3137.6	3070.7	2862.8	2777.4	2732.8
35°	3048.5	2966.8	2762.5	2654.9	2610.3
37.5°	2940.8	2859.1	2647.4	2539.8	2487.8
40°	2825.7	2744.0	2536.0	2409.8	2343.0
42.5°	2699.4	2625.2	2413.5	2261.3	2131.3
45°	2558.3	2495.2	2283.6	2057.1	1793.4
47.5°	2428.4	2369.0	2153.6	1860.3	1589.2
50°	2291.0	2235.3	2019.9	1674.6	1451.8
52.5°	2138.7	2097.9	1875.1	1514.9	1336.7
55°	1993.9	1964.2	1730.3	1373.8	1232.7
57.5°	1841.7	1812.0	1585.5	1240.2	1128.8
60°	1700.6	1670.9	1440.7	1121.4	1032.2
62.5°	1559.5	1518.7	1299.6	1006.2	932.0
65°	1403.6	1370.1	1151.1	894.9	846.6
67.5°	1247.6	1217.9	1013.7	790.9	757.5
70°	1091.7	1065.7	872.6	690.6	672.1
72.5°	939.4	906.0	746.3	590.4	583.0
75°	779.8	753.8	605.2	482.7	467.9
77.5°	627.5	605.2	475.3	367.6	356.5
80°	479.0	456.7	341.6	267.3	278.5
82.5°	352.7	323.0	230.2	207.9	219.1
85°	215.4	189.4	148.5	141.1	141.1
87.5°	74.3	70.5	66.8	78.0	81.7
90°	11.1	52.0	89.1	111.4	118.8
92.5°	63.1	92.8	122.5	144.8	152.2
95°	118.8	159.7	181.9	267.3	289.6
97.5°	163.4	211.6	237.6	315.6	337.9
100°	207.9	252.5	334.2	375.0	401.0
102.5°	245.1	278.5	393.6	475.3	490.1
105°	278.5	289.6	415.9	557.0	590.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	334.2	297.0	445.6	605.2	664.6
115°	345.3	293.3	441.9	608.9	668.4
117.5°	345.3	293.3	430.7	608.9	668.4
120°	337.9	297.0	415.9	601.5	664.6
122.5°	330.5	289.6	401.0	586.7	649.8
125°	319.3	282.2	382.4	560.7	631.2
127.5°	300.8	289.6	363.9	527.3	597.8
130°	285.9	293.3	341.6	493.8	564.4
132.5°	274.8	285.9	319.3	456.7	519.8
135°	259.9	282.2	308.2	415.9	479.0
137.5°	248.8	271.1	289.6	378.7	430.7
140°	237.6	263.6	271.1	330.5	375.0
142.5°	222.8	252.5	256.2	308.2	326.8
145°	211.6	245.1	267.3	285.9	304.5
147.5°	200.5	230.2	259.9	263.6	282.2
150°	196.8	215.4	248.8	252.5	259.9
152.5°	193.1	207.9	230.2	252.5	256.2
155°	193.1	204.2	219.1	237.6	241.4
157.5°	189.4	204.2	211.6	226.5	230.2
160°	189.4	200.5	207.9	219.1	222.8
162.5°	189.4	200.5	204.2	215.4	219.1
165°	189.4	196.8	204.2	211.6	211.6
167.5°	189.4	196.8	200.5	207.9	207.9
170°	189.4	193.1	200.5	204.2	204.2
172.5°	185.7	193.1	196.8	204.2	204.2
175°	185.7	189.4	193.1	196.8	200.5
177.5°	178.2	189.4	193.1	196.8	193.1
180°	181.9	181.9	181.9	181.9	181.9



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	304.5	293.3	430.7	586.7	634.9
110°	323.0	297.0	441.9	597.8	657.2



(END OF REPORT)