

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: P520682

Luminaire Tested: **8WSLA-150-L840-UPL15-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520682
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-L840-UPL15-UNV-U
Description: 8 FOOT, 3000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

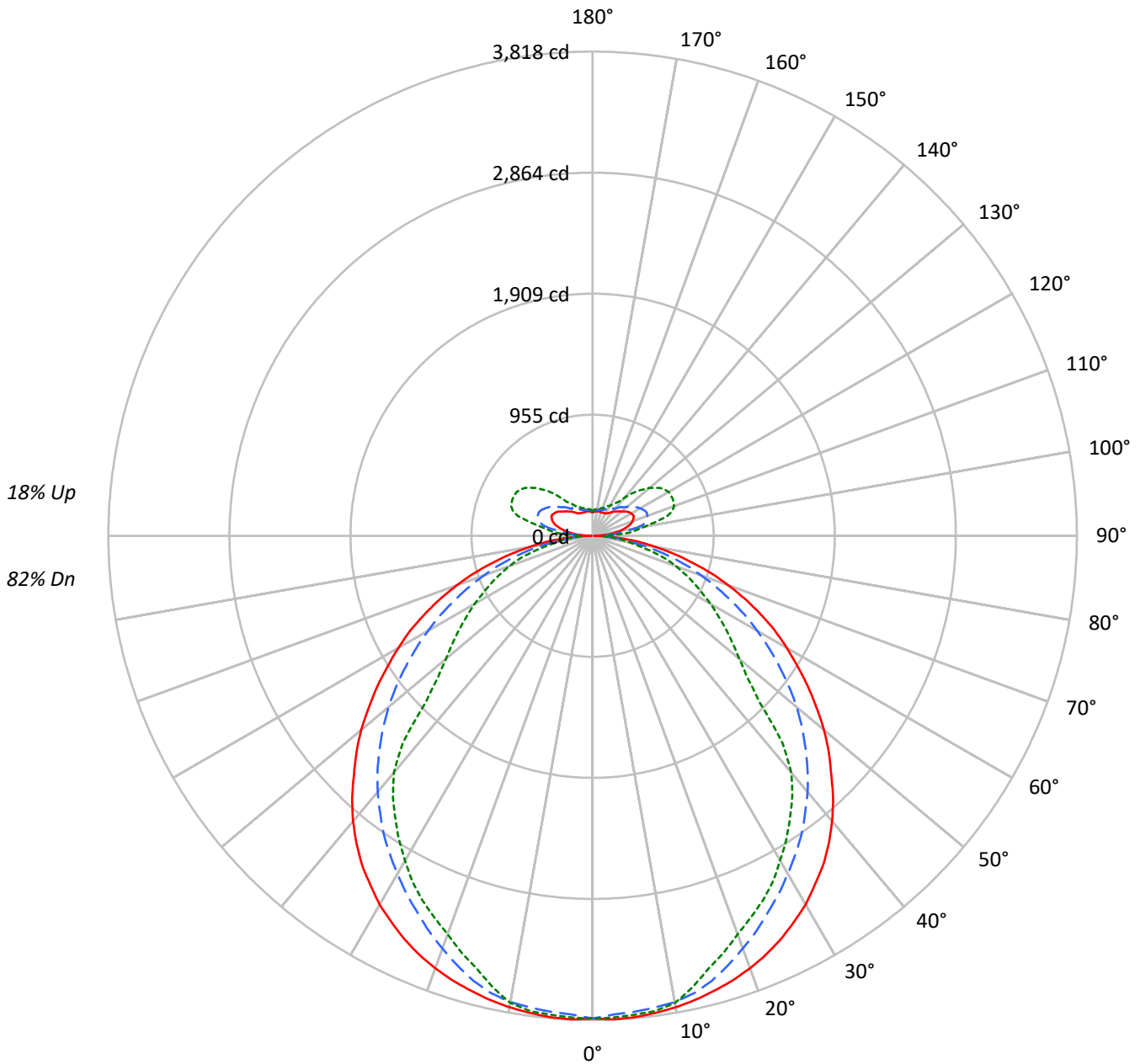
Lumens per Lamp: N/A
Luminaire Lumens: 12327.0 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

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°	10242	10242	10242
5°	10292	10177	10240
10°	10316	10200	10221
15°	10346	10120	9840
20°	10391	9916	9573
25°	10419	9720	9421
30°	10435	9560	9188
35°	10411	9435	8915
40°	10320	9262	8557
45°	10122	9035	7096
50°	9971	8791	6319
55°	9726	8440	6013
60°	9515	8061	5776
65°	9291	7620	5604
70°	8929	7138	5497
75°	8429	6542	5057
80°	7717	5503	4486
85°	6913	4767	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.7	2.9
10°-20°	1024.7	8.3
20°-30°	1529.3	12.4
30°-40°	1822.2	14.8
40°-50°	1812.5	14.7
50°-60°	1553.4	12.6
60°-70°	1169.9	9.5
70°-80°	677.5	5.5
80°-90°	203.6	1.7
90°-100°	218.6	1.8
100°-110°	448.9	3.6
110°-120°	474.7	3.9
120°-130°	396.0	3.2
130°-140°	276.6	2.2
140°-150°	172.2	1.4
150°-160°	106.7	0.9
160°-170°	60.1	0.5
170°-180°	19.4	0.2
0°-30°	2914.7	23.6
0°-40°	4736.9	38.4
0°-60°	8102.7	65.7
0°-90°	10153.7	82.4
90°-120°	1142.2	9.3
90°-150°	1987.0	16.1
90°-180°	2173.0	17.6
0°-180°	12327.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3806	3806	3806	3806	3806	
5°	3810	3798	3768	3795	3791	363
15°	3714	3710	3632	3571	3532	1049
25°	3509	3459	3274	3192	3173	1618
35°	3169	3084	2872	2760	2714	1979
45°	2660	2594	2374	2139	1864	2056
55°	2073	2042	1799	1428	1282	1853
65°	1459	1424	1197	930	880	1442
75°	811	784	629	502	486	859
85°	224	197	154	147	147	239
90°	12	54	93	116	124	23
95°	124	166	189	278	301	118
105°	290	301	432	579	614	300
115°	359	305	459	633	695	350
125°	332	293	398	583	656	295
135°	270	293	320	432	498	211
145°	220	255	278	297	316	140
155°	201	212	228	247	251	93
165°	197	205	212	220	220	56
175°	193	197	201	205	208	18
180°	189	189	189	189	189	



TEST NUMBER: P520682

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3806.2	3806.2	3806.2	3806.2	3806.2
2.5°	3817.8	3810.1	3779.2	3810.1	3802.4
5°	3810.1	3798.5	3767.6	3794.7	3790.8
7.5°	3794.7	3786.9	3752.2	3783.1	3779.2
10°	3775.4	3763.8	3732.9	3756.1	3740.6
12.5°	3748.3	3740.6	3694.3	3675.0	3644.1
15°	3713.6	3709.7	3632.5	3570.8	3532.2
17.5°	3675.0	3659.5	3551.5	3478.1	3443.4
20°	3628.7	3605.5	3462.7	3377.7	3343.0
22.5°	3574.6	3539.9	3373.9	3292.8	3258.1
25°	3509.0	3458.8	3273.5	3192.5	3173.1
27.5°	3435.6	3377.7	3180.9	3099.8	3076.6
30°	3358.4	3285.1	3076.6	2999.4	2957.0
32.5°	3261.9	3192.5	2976.3	2887.5	2841.2
35°	3169.3	3084.4	2872.0	2760.1	2713.8
37.5°	3057.3	2972.4	2752.4	2640.4	2586.4
40°	2937.7	2852.7	2636.6	2505.3	2435.8
42.5°	2806.4	2729.2	2509.2	2350.9	2215.8
45°	2659.7	2594.1	2374.1	2138.6	1864.5
47.5°	2524.6	2462.9	2239.0	1934.0	1652.2
50°	2381.8	2323.9	2100.0	1741.0	1509.4
52.5°	2223.5	2181.1	1949.4	1575.0	1389.7
55°	2073.0	2042.1	1798.9	1428.3	1281.6
57.5°	1914.7	1883.8	1648.3	1289.3	1173.5
60°	1768.0	1737.1	1497.8	1165.8	1073.2
62.5°	1621.3	1578.9	1351.1	1046.1	968.9
65°	1459.2	1424.4	1196.7	930.3	880.1
67.5°	1297.1	1266.2	1053.9	822.2	787.5
70°	1134.9	1107.9	907.2	718.0	698.7
72.5°	976.7	941.9	775.9	613.8	606.1
75°	810.7	783.6	629.2	501.8	486.4
77.5°	652.4	629.2	494.1	382.2	370.6
80°	498.0	474.8	355.1	277.9	289.5
82.5°	366.7	335.8	239.3	216.2	227.8
85°	223.9	196.9	154.4	146.7	146.7
87.5°	77.2	73.3	69.5	81.1	84.9
90°	11.6	54.0	92.6	115.8	123.5
92.5°	65.6	96.5	127.4	150.6	158.3
95°	123.5	166.0	189.2	277.9	301.1
97.5°	169.9	220.0	247.1	328.1	351.3
100°	216.2	262.5	347.4	389.9	416.9
102.5°	254.8	289.5	409.2	494.1	509.6
105°	289.5	301.1	432.4	579.0	613.8



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CATALOG NUMBER: 8WSLA-150-L840-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	347.4	308.8	463.2	629.2	691.0
115°	359.0	305.0	459.4	633.1	694.9
117.5°	359.0	305.0	447.8	633.1	694.9
120°	351.3	308.8	432.4	625.4	691.0
122.5°	343.6	301.1	416.9	609.9	675.5
125°	332.0	293.4	397.6	582.9	656.2
127.5°	312.7	301.1	378.3	548.2	621.5
130°	297.2	305.0	355.1	513.4	586.8
132.5°	285.7	297.2	332.0	474.8	540.4
135°	270.2	293.4	320.4	432.4	498.0
137.5°	258.6	281.8	301.1	393.7	447.8
140°	247.1	274.1	281.8	343.6	389.9
142.5°	231.6	262.5	266.4	320.4	339.7
145°	220.0	254.8	277.9	297.2	316.5
147.5°	208.5	239.3	270.2	274.1	293.4
150°	204.6	223.9	258.6	262.5	270.2
152.5°	200.7	216.2	239.3	262.5	266.4
155°	200.7	212.3	227.8	247.1	250.9
157.5°	196.9	212.3	220.0	235.5	239.3
160°	196.9	208.5	216.2	227.8	231.6
162.5°	196.9	208.5	212.3	223.9	227.8
165°	196.9	204.6	212.3	220.0	220.0
167.5°	196.9	204.6	208.5	216.2	216.2
170°	196.9	200.7	208.5	212.3	212.3
172.5°	193.0	200.7	204.6	212.3	212.3
175°	193.0	196.9	200.7	204.6	208.5
177.5°	185.3	196.9	200.7	204.6	200.7
180°	189.2	189.2	189.2	189.2	189.2



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	316.5	305.0	447.8	609.9	660.1
110°	335.8	308.8	459.4	621.5	683.3



(END OF REPORT)