

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: P520634

Luminaire Tested: **8WSLA-100-L840-UPL15-UNV-U**

Issue Date: 5/3/2021

Test Information

Test Method: LM-79-08
Report Number: P520634
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-100-L840-UPL15-UNV-U
Description: 8 FOOT, 2000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

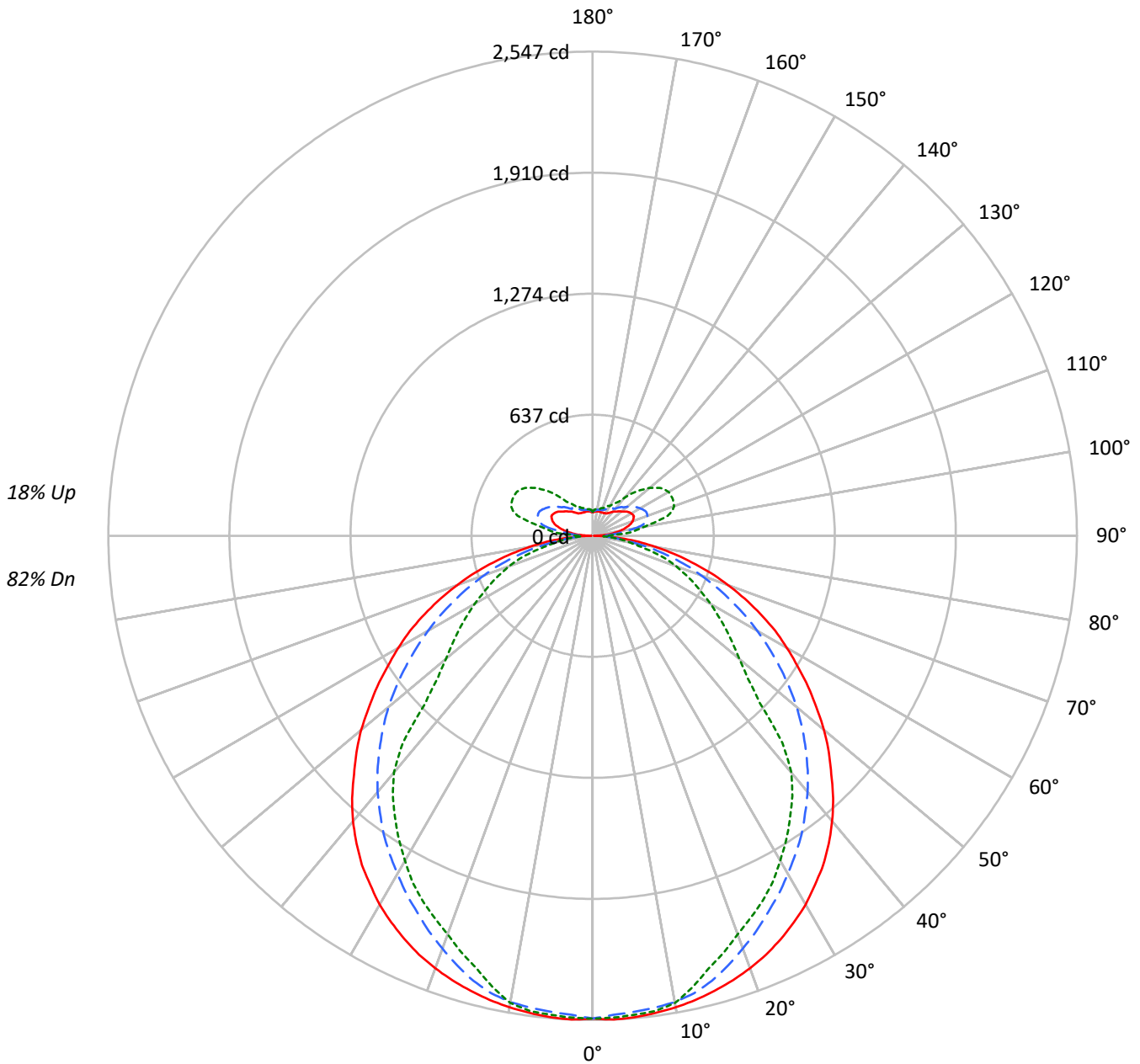
Lumens per Lamp: N/A
Luminaire Lumens: 8225.0 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 63.4
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°	6834	6834	6834
5°	6867	6791	6832
10°	6883	6806	6820
15°	6903	6752	6566
20°	6934	6616	6388
25°	6952	6485	6286
30°	6963	6379	6131
35°	6947	6295	5948
40°	6885	6180	5709
45°	6754	6028	4735
50°	6653	5866	4216
55°	6489	5631	4012
60°	6349	5379	3853
65°	6199	5084	3740
70°	5958	4762	3668
75°	5624	4365	3374
80°	5150	3673	2994
85°	4613	3180	3023



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.7	2.9
10°-20°	683.7	8.3
20°-30°	1020.4	12.4
30°-40°	1215.8	14.8
40°-50°	1209.3	14.7
50°-60°	1036.5	12.6
60°-70°	780.6	9.5
70°-80°	452.1	5.5
80°-90°	135.9	1.7
90°-100°	145.9	1.8
100°-110°	299.5	3.6
110°-120°	316.7	3.9
120°-130°	264.2	3.2
130°-140°	184.6	2.2
140°-150°	114.9	1.4
150°-160°	71.2	0.9
160°-170°	40.1	0.5
170°-180°	12.9	0.2
0°-30°	1944.8	23.6
0°-40°	3160.6	38.4
0°-60°	5406.4	65.7
0°-90°	6774.9	82.4
90°-120°	762.1	9.3
90°-150°	1325.8	16.1
90°-180°	1450.0	17.6
0°-180°	8225.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2540	2540	2540	2540	2540	
5°	2542	2534	2514	2532	2529	242
15°	2478	2475	2424	2382	2357	700
25°	2341	2308	2184	2130	2117	1079
35°	2115	2058	1916	1842	1811	1321
45°	1775	1731	1584	1427	1244	1372
55°	1383	1363	1200	953	855	1237
65°	974	950	798	621	587	962
75°	541	523	420	335	324	573
85°	149	131	103	98	98	159
90°	8	36	62	77	82	15
95°	82	111	126	186	201	79
105°	193	201	288	386	410	200
115°	240	204	306	422	464	233
125°	222	196	265	389	438	197
135°	180	196	214	288	332	141
145°	147	170	186	198	211	93
155°	134	142	152	165	167	62
165°	131	136	142	147	147	37
175°	129	131	134	136	139	12
180°	126	126	126	126	126	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2539.7	2539.7	2539.7	2539.7	2539.7
2.5°	2547.4	2542.2	2521.6	2542.2	2537.1
5°	2542.2	2534.5	2513.9	2531.9	2529.3
7.5°	2531.9	2526.8	2503.6	2524.2	2521.6
10°	2519.0	2511.3	2490.7	2506.2	2495.9
12.5°	2501.0	2495.9	2465.0	2452.1	2431.5
15°	2477.8	2475.3	2423.7	2382.5	2356.8
17.5°	2452.1	2441.8	2369.7	2320.7	2297.5
20°	2421.2	2405.7	2310.4	2253.7	2230.6
22.5°	2385.1	2361.9	2251.2	2197.1	2173.9
25°	2341.3	2307.8	2184.2	2130.1	2117.2
27.5°	2292.4	2253.7	2122.4	2068.3	2052.8
30°	2240.9	2191.9	2052.8	2001.3	1973.0
32.5°	2176.5	2130.1	1985.9	1926.6	1895.7
35°	2114.7	2058.0	1916.3	1841.6	1810.7
37.5°	2040.0	1983.3	1836.5	1761.8	1725.7
40°	1960.1	1903.5	1759.2	1671.6	1625.3
42.5°	1872.5	1821.0	1674.2	1568.6	1478.5
45°	1774.7	1730.9	1584.1	1426.9	1244.1
47.5°	1684.5	1643.3	1493.9	1290.4	1102.4
50°	1589.2	1550.6	1401.2	1161.6	1007.1
52.5°	1483.6	1455.3	1300.7	1050.9	927.3
55°	1383.2	1362.6	1200.3	953.0	855.1
57.5°	1277.6	1256.9	1099.8	860.3	783.0
60°	1179.7	1159.1	999.4	777.9	716.0
62.5°	1081.8	1053.5	901.5	698.0	646.5
65°	973.6	950.4	798.5	620.7	587.3
67.5°	865.4	844.8	703.2	548.6	525.4
70°	757.3	739.2	605.3	479.1	466.2
72.5°	651.7	628.5	517.7	409.5	404.4
75°	540.9	522.9	419.8	334.8	324.5
77.5°	435.3	419.8	329.7	255.0	247.3
80°	332.3	316.8	237.0	185.5	193.2
82.5°	244.7	224.1	159.7	144.2	152.0
85°	149.4	131.4	103.0	97.9	97.9
87.5°	51.5	48.9	46.4	54.1	56.7
90°	7.7	36.1	61.8	77.3	82.4
92.5°	43.8	64.4	85.0	100.5	105.6
95°	82.4	110.8	126.2	185.5	200.9
97.5°	113.3	146.8	164.8	218.9	234.4
100°	144.2	175.1	231.8	260.1	278.2
102.5°	170.0	193.2	273.0	329.7	340.0
105°	193.2	200.9	288.5	386.4	409.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	231.8	206.1	309.1	419.8	461.1
115°	239.5	203.5	306.5	422.4	463.6
117.5°	239.5	203.5	298.8	422.4	463.6
120°	234.4	206.1	288.5	417.3	461.1
122.5°	229.2	200.9	278.2	407.0	450.7
125°	221.5	195.8	265.3	388.9	437.9
127.5°	208.6	200.9	252.4	365.8	414.7
130°	198.3	203.5	237.0	342.6	391.5
132.5°	190.6	198.3	221.5	316.8	360.6
135°	180.3	195.8	213.8	288.5	332.3
137.5°	172.6	188.0	200.9	262.7	298.8
140°	164.8	182.9	188.0	229.2	260.1
142.5°	154.5	175.1	177.7	213.8	226.7
145°	146.8	170.0	185.5	198.3	211.2
147.5°	139.1	159.7	180.3	182.9	195.8
150°	136.5	149.4	172.6	175.1	180.3
152.5°	133.9	144.2	159.7	175.1	177.7
155°	133.9	141.7	152.0	164.8	167.4
157.5°	131.4	141.7	146.8	157.1	159.7
160°	131.4	139.1	144.2	152.0	154.5
162.5°	131.4	139.1	141.7	149.4	152.0
165°	131.4	136.5	141.7	146.8	146.8
167.5°	131.4	136.5	139.1	144.2	144.2
170°	131.4	133.9	139.1	141.7	141.7
172.5°	128.8	133.9	136.5	141.7	141.7
175°	128.8	131.4	133.9	136.5	139.1
177.5°	123.6	131.4	133.9	136.5	133.9
180°	126.2	126.2	126.2	126.2	126.2



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	211.2	203.5	298.8	407.0	440.4
110°	224.1	206.1	306.5	414.7	455.9



(END OF REPORT)