

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: P520650

Luminaire Tested: **8WSLA-100-L950-UPL8-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520650
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-100-L950-UPL8-UNV-U
Description: 8 FOOT, 2000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 90 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

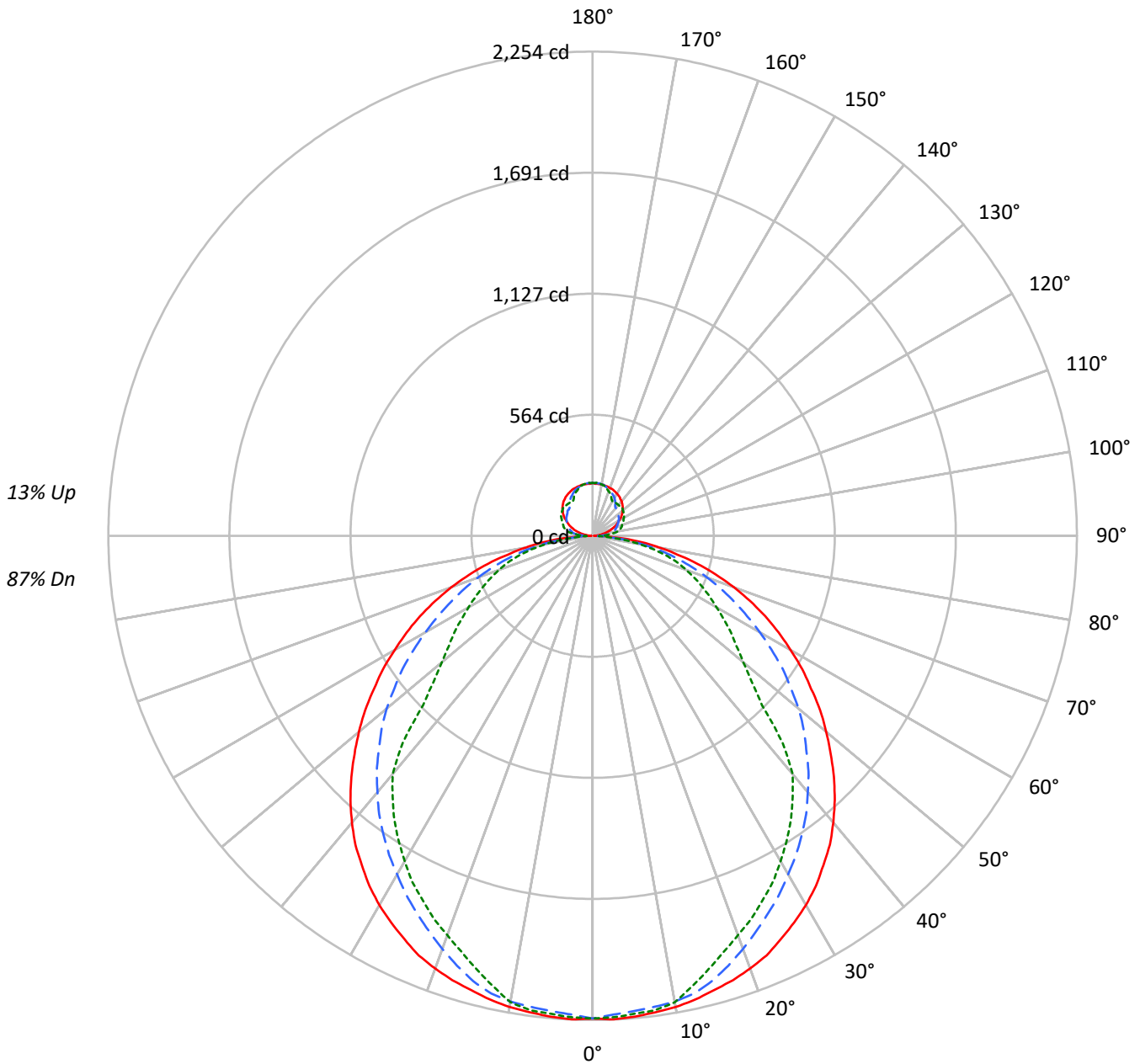
Lumens per Lamp: N/A
Luminaire Lumens: 6993.1 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 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	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°	6047	6047	6047
5°	6070	6000	6035
10°	6087	6016	6025
15°	6098	5981	5819
20°	6139	5861	5666
25°	6153	5750	5558
30°	6168	5656	5435
35°	6150	5576	5289
40°	6121	5474	5088
45°	6041	5352	4245
50°	5942	5238	3831
55°	5825	5066	3686
60°	5725	4837	3584
65°	5641	4632	3582
70°	5495	4452	3637
75°	5244	4236	3664
80°	4909	3808	3408
85°	4492	2695	2297



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.7	3.0
10°-20°	604.8	8.6
20°-30°	903.7	12.9
30°-40°	1078.7	15.4
40°-50°	1078.8	15.4
50°-60°	933.6	13.4
60°-70°	716.6	10.2
70°-80°	439.1	6.3
80°-90°	123.6	1.8
90°-100°	69.9	1.0
100°-110°	110.9	1.6
110°-120°	129.7	1.9
120°-130°	140.0	2.0
130°-140°	137.9	2.0
140°-150°	122.0	1.7
150°-160°	100.4	1.4
160°-170°	67.2	1.0
170°-180°	23.4	0.3
0°-30°	1721.2	24.6
0°-40°	2799.8	40.0
0°-60°	4812.3	68.8
0°-90°	6091.7	87.1
90°-120°	310.4	4.4
90°-150°	710.4	10.2
90°-180°	901.0	12.9
0°-180°	6993.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2247	2247	2247	2247	2247	
5°	2247	2240	2221	2237	2234	214
15°	2189	2186	2147	2108	2089	619
25°	2072	2047	1937	1885	1872	956
35°	1872	1824	1697	1636	1610	1172
45°	1588	1542	1406	1280	1115	1224
55°	1242	1212	1080	863	786	1113
65°	886	854	728	585	563	875
75°	504	478	407	352	352	532
85°	146	120	87	74	74	152
90°	6	23	36	45	48	10
95°	26	55	74	78	78	26
105°	74	78	110	129	136	78
115°	123	104	129	149	158	120
125°	165	133	149	171	178	147
135°	197	178	165	181	191	152
145°	220	210	184	181	188	137
155°	233	230	217	207	204	107
165°	239	242	236	236	236	68
175°	242	246	246	249	249	23
180°	246	246	246	246	246	



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CATALOG NUMBER: 8WSLA-100-L950-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2247.0	2247.0	2247.0	2247.0	2247.0
2.5°	2253.5	2247.0	2230.8	2247.0	2243.8
5°	2247.0	2240.5	2221.2	2237.3	2234.1
7.5°	2237.3	2230.8	2211.5	2230.8	2227.6
10°	2227.6	2221.2	2201.8	2214.7	2205.0
12.5°	2211.5	2205.0	2182.4	2166.2	2146.8
15°	2188.8	2185.6	2146.8	2108.0	2088.6
17.5°	2169.4	2159.7	2098.3	2053.0	2030.4
20°	2143.6	2127.4	2046.6	1994.8	1978.7
22.5°	2114.5	2088.6	1991.6	1943.1	1930.2
25°	2072.4	2046.6	1936.6	1884.9	1872.0
27.5°	2030.4	1998.1	1881.7	1829.9	1817.0
30°	1985.1	1939.9	1820.2	1771.7	1749.1
32.5°	1933.4	1888.1	1762.0	1707.1	1681.2
35°	1872.0	1823.5	1697.4	1636.0	1610.1
37.5°	1813.8	1762.0	1632.7	1564.8	1529.3
40°	1742.6	1690.9	1558.4	1484.0	1448.4
42.5°	1668.3	1619.8	1487.2	1396.7	1309.4
45°	1587.5	1542.2	1406.4	1280.3	1115.4
47.5°	1503.4	1464.6	1332.0	1160.7	1002.3
50°	1419.3	1380.5	1251.2	1047.5	915.0
52.5°	1335.3	1302.9	1160.7	953.8	843.8
55°	1241.5	1212.4	1079.9	863.2	785.6
57.5°	1157.5	1128.4	986.1	788.9	724.2
60°	1063.7	1037.8	898.8	714.5	666.0
62.5°	976.4	947.3	811.5	649.9	614.3
65°	885.9	853.5	727.5	585.2	562.6
67.5°	792.1	759.8	646.6	527.0	514.1
70°	698.4	672.5	565.8	468.8	462.3
72.5°	601.4	572.3	485.0	413.8	413.8
75°	504.4	478.5	407.4	352.4	352.4
77.5°	404.1	391.2	326.5	287.7	291.0
80°	316.8	300.7	245.7	219.9	219.9
82.5°	232.8	213.4	164.9	145.5	152.0
85°	145.5	119.6	87.3	74.4	74.4
87.5°	45.3	35.6	25.9	29.1	29.1
90°	6.5	22.6	35.6	45.3	48.5
92.5°	16.2	42.0	51.7	61.4	64.7
95°	25.9	55.0	74.4	77.6	77.6
97.5°	35.6	61.4	90.5	103.5	103.5
100°	48.5	64.7	97.0	116.4	119.6
102.5°	61.4	71.1	103.5	122.9	129.3
105°	74.4	77.6	109.9	129.3	135.8



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CATALOG NUMBER: 8WSLA-100-L950-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	109.9	97.0	122.9	145.5	152.0
115°	122.9	103.5	129.3	148.7	158.4
117.5°	132.6	113.2	135.8	155.2	161.7
120°	142.3	119.6	139.0	161.7	168.1
122.5°	155.2	126.1	145.5	164.9	174.6
125°	164.9	132.6	148.7	171.4	177.8
127.5°	174.6	145.5	152.0	174.6	181.1
130°	181.1	158.4	155.2	177.8	184.3
132.5°	190.8	168.1	158.4	181.1	187.5
135°	197.2	177.8	164.9	181.1	190.8
137.5°	203.7	187.5	164.9	181.1	187.5
140°	210.2	197.2	168.1	181.1	187.5
142.5°	213.4	203.7	171.4	181.1	187.5
145°	219.9	210.2	184.3	181.1	187.5
147.5°	223.1	216.6	194.0	181.1	187.5
150°	226.3	223.1	203.7	184.3	184.3
152.5°	229.6	226.3	210.2	197.2	190.8
155°	232.8	229.6	216.6	206.9	203.7
157.5°	236.0	236.0	223.1	216.6	213.4
160°	236.0	239.3	229.6	223.1	219.9
162.5°	239.3	242.5	232.8	229.6	226.3
165°	239.3	242.5	236.0	236.0	236.0
167.5°	242.5	245.7	242.5	239.3	239.3
170°	242.5	245.7	242.5	242.5	242.5
172.5°	242.5	245.7	245.7	245.7	245.7
175°	242.5	245.7	245.7	248.9	248.9
177.5°	242.5	245.7	245.7	245.7	245.7
180°	245.7	245.7	245.7	245.7	245.7



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	87.3	84.1	113.2	135.8	142.3
110°	97.0	90.5	119.6	139.0	145.5



(END OF REPORT)