

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: P520734

Luminaire Tested: **8WSLA-200-L850-UPL8-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520734
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-200-L850-UPL8-UNV-U
Description: 8 FOOT, 4000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

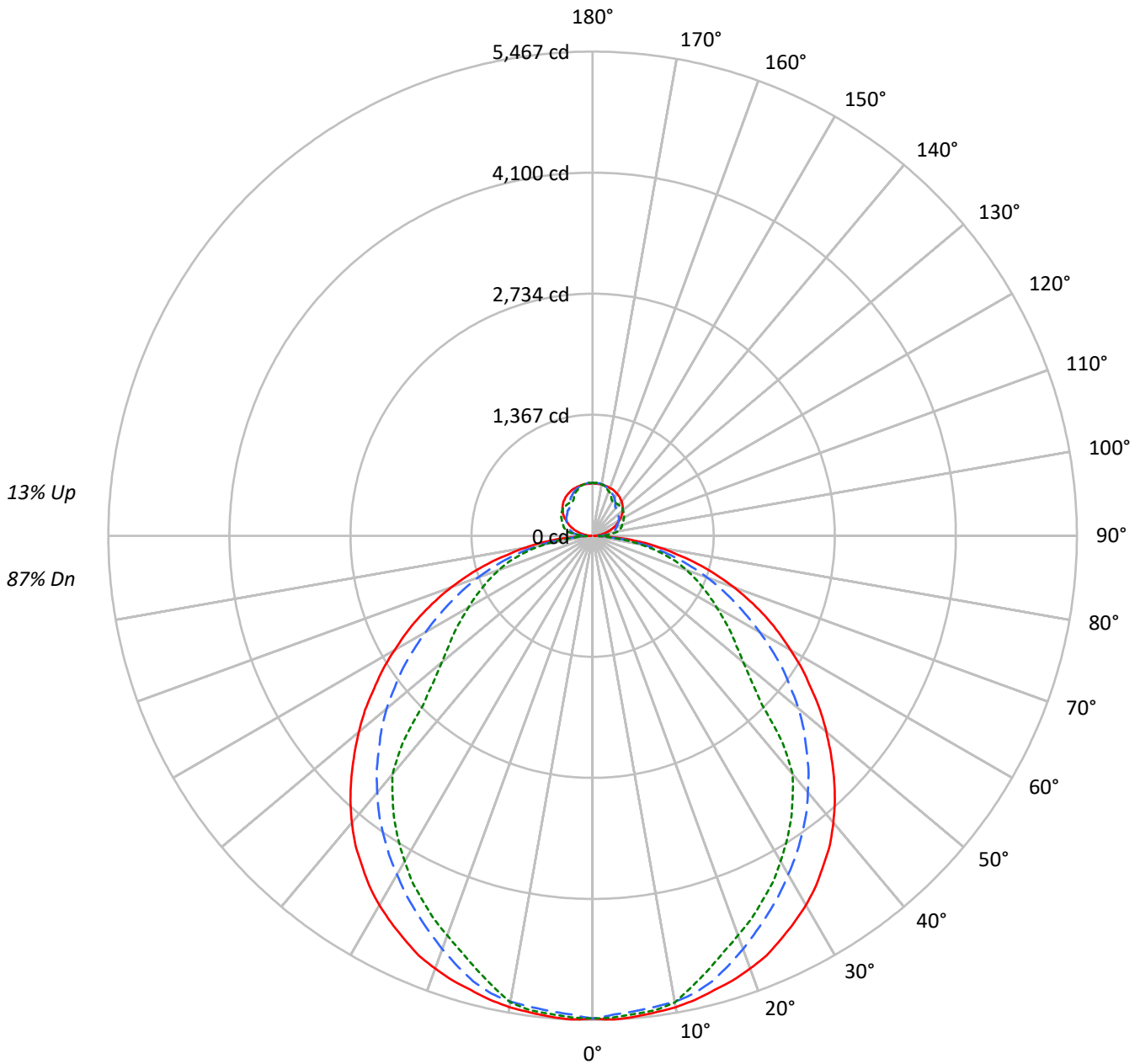
Lumens per Lamp: N/A
Luminaire Lumens: 16966.0 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 152.3
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

TEST NUMBER: P520734

CATALOG NUMBER: 8WSLA-200-L850-UPL8-UNV-U

Luminous Intensity Polar Plot





TEST NUMBER: P520734

CATALOG NUMBER: 8WSLA-200-L850-UPL8-UNV-U

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°	14670	14670	14670
5°	14726	14557	14641
10°	14768	14596	14618
15°	14794	14510	14117
20°	14893	14219	13747
25°	14929	13951	13485
30°	14965	13722	13186
35°	14920	13528	12833
40°	14852	13281	12344
45°	14657	12985	10299
50°	14416	12708	9293
55°	14132	12291	8943
60°	13889	11736	8697
65°	13685	11238	8691
70°	13331	10800	8825
75°	12723	10275	8890
80°	11912	9238	8266
85°	10899	6539	5570



TEST NUMBER: P520734

CATALOG NUMBER: 8WSLA-200-L850-UPL8-UNV-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.1	3.0
10°-20°	1467.3	8.6
20°-30°	2192.4	12.9
30°-40°	2617.1	15.4
40°-50°	2617.3	15.4
50°-60°	2265.2	13.4
60°-70°	1738.6	10.2
70°-80°	1065.3	6.3
80°-90°	299.9	1.8
90°-100°	169.5	1.0
100°-110°	269.0	1.6
110°-120°	314.6	1.9
120°-130°	339.6	2.0
130°-140°	334.6	2.0
140°-150°	296.0	1.7
150°-160°	243.6	1.4
160°-170°	163.0	1.0
170°-180°	56.8	0.3
0°-30°	4175.7	24.6
0°-40°	6792.8	40.0
0°-60°	11675.3	68.8
0°-90°	14779.2	87.1
90°-120°	753.1	4.4
90°-150°	1723.4	10.2
90°-180°	2187.0	12.9
0°-180°	16966.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5452	5452	5452	5452	5452	
5°	5452	5436	5389	5428	5420	519
15°	5310	5302	5208	5114	5067	1502
25°	5028	4965	4699	4573	4542	2320
35°	4542	4424	4118	3969	3906	2844
45°	3851	3742	3412	3106	2706	2970
55°	3012	2942	2620	2094	1906	2700
65°	2149	2071	1765	1420	1365	2123
75°	1224	1161	988	855	855	1291
85°	353	290	212	180	180	369
90°	16	55	86	110	118	25
95°	63	133	180	188	188	62
105°	180	188	267	314	329	189
115°	298	251	314	361	384	291
125°	400	322	361	416	431	356
135°	478	431	400	439	463	369
145°	533	510	447	439	455	333
155°	565	557	526	502	494	261
165°	580	588	573	573	573	165
175°	588	596	596	604	604	56
180°	596	596	596	596	596	



TEST NUMBER: P520734

CATALOG NUMBER: 8WSLA-200-L850-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5451.6	5451.6	5451.6	5451.6	5451.6
2.5°	5467.3	5451.6	5412.4	5451.6	5443.7
5°	5451.6	5435.9	5388.8	5428.0	5420.2
7.5°	5428.0	5412.4	5365.3	5412.4	5404.5
10°	5404.5	5388.8	5341.8	5373.1	5349.6
12.5°	5365.3	5349.6	5294.7	5255.5	5208.4
15°	5310.4	5302.5	5208.4	5114.3	5067.2
17.5°	5263.3	5239.8	5090.8	4980.9	4926.0
20°	5200.6	5161.3	4965.2	4839.7	4800.5
22.5°	5130.0	5067.2	4831.9	4714.2	4682.9
25°	5028.0	4965.2	4698.6	4573.0	4541.7
27.5°	4926.0	4847.6	4565.2	4439.7	4408.3
30°	4816.2	4706.4	4416.2	4298.5	4243.6
32.5°	4690.7	4580.9	4275.0	4141.6	4078.9
35°	4541.7	4424.0	4118.1	3969.1	3906.3
37.5°	4400.5	4275.0	3961.2	3796.5	3710.2
40°	4227.9	4102.4	3780.8	3600.4	3514.1
42.5°	4047.5	3929.8	3608.2	3388.6	3176.8
45°	3851.4	3741.6	3412.1	3106.2	2706.2
47.5°	3647.5	3553.3	3231.7	2816.0	2431.6
50°	3443.5	3349.4	3035.6	2541.5	2219.9
52.5°	3239.6	3161.1	2816.0	2314.0	2047.3
55°	3012.1	2941.5	2619.9	2094.3	1906.1
57.5°	2808.1	2737.6	2392.4	1913.9	1757.1
60°	2580.7	2517.9	2180.6	1733.5	1615.9
62.5°	2368.9	2298.3	1968.8	1576.6	1490.4
65°	2149.3	2070.8	1764.9	1419.8	1364.9
67.5°	1921.8	1843.3	1568.8	1278.6	1247.2
70°	1694.3	1631.6	1372.7	1137.4	1121.7
72.5°	1459.0	1388.4	1176.6	1004.0	1004.0
75°	1223.7	1160.9	988.3	855.0	855.0
77.5°	980.5	949.1	792.2	698.1	706.0
80°	768.7	729.5	596.1	533.4	533.4
82.5°	564.8	517.7	400.0	353.0	368.7
85°	353.0	290.2	211.8	180.4	180.4
87.5°	109.8	86.3	62.8	70.6	70.6
90°	15.7	54.9	86.3	109.8	117.7
92.5°	39.2	102.0	125.5	149.0	156.9
95°	62.8	133.3	180.4	188.3	188.3
97.5°	86.3	149.0	219.6	251.0	251.0
100°	117.7	156.9	235.3	282.4	290.2
102.5°	149.0	172.6	251.0	298.1	313.8
105°	180.4	188.3	266.7	313.8	329.4



TEST NUMBER: P520734

CATALOG NUMBER: 8WSLA-200-L850-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	266.7	235.3	298.1	353.0	368.7
115°	298.1	251.0	313.8	360.8	384.4
117.5°	321.6	274.5	329.4	376.5	392.2
120°	345.1	290.2	337.3	392.2	407.9
122.5°	376.5	305.9	353.0	400.0	423.6
125°	400.0	321.6	360.8	415.7	431.4
127.5°	423.6	353.0	368.7	423.6	439.3
130°	439.3	384.4	376.5	431.4	447.1
132.5°	462.8	407.9	384.4	439.3	455.0
135°	478.5	431.4	400.0	439.3	462.8
137.5°	494.2	455.0	400.0	439.3	455.0
140°	509.9	478.5	407.9	439.3	455.0
142.5°	517.7	494.2	415.7	439.3	455.0
145°	533.4	509.9	447.1	439.3	455.0
147.5°	541.2	525.5	470.6	439.3	455.0
150°	549.1	541.2	494.2	447.1	447.1
152.5°	556.9	549.1	509.9	478.5	462.8
155°	564.8	556.9	525.5	502.0	494.2
157.5°	572.6	572.6	541.2	525.5	517.7
160°	572.6	580.5	556.9	541.2	533.4
162.5°	580.5	588.3	564.8	556.9	549.1
165°	580.5	588.3	572.6	572.6	572.6
167.5°	588.3	596.1	588.3	580.5	580.5
170°	588.3	596.1	588.3	588.3	588.3
172.5°	588.3	596.1	596.1	596.1	596.1
175°	588.3	596.1	596.1	604.0	604.0
177.5°	588.3	596.1	596.1	596.1	596.1
180°	596.1	596.1	596.1	596.1	596.1



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	211.8	203.9	274.5	329.4	345.1
110°	235.3	219.6	290.2	337.3	353.0



(END OF REPORT)