

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: P520632

Luminaire Tested: **8WSLA-100-L835-UPL8-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520632
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-L835-UPL8-UNV-U
Description: 8 FOOT, 2000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

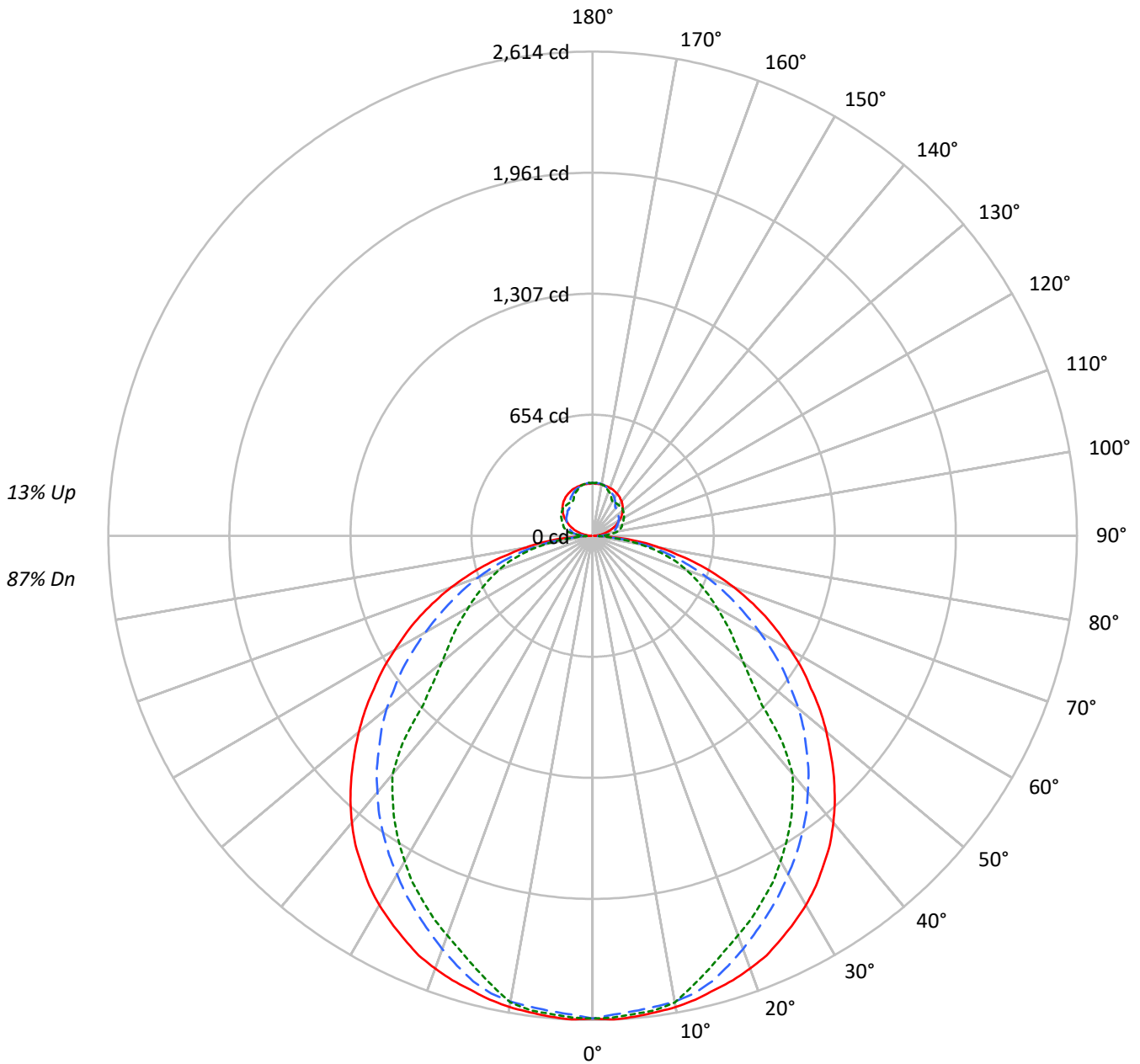
Lumens per Lamp: N/A
Luminaire Lumens: 8111.3 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

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°	7013	7013	7013
5°	7040	6959	7000
10°	7060	6978	6988
15°	7073	6937	6749
20°	7120	6798	6572
25°	7137	6670	6447
30°	7154	6560	6304
35°	7133	6468	6135
40°	7100	6349	5902
45°	7007	6208	4924
50°	6892	6076	4443
55°	6756	5876	4275
60°	6640	5611	4158
65°	6543	5373	4155
70°	6373	5164	4220
75°	6082	4913	4250
80°	5695	4417	3952
85°	5212	3128	2665



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.7	3.0
10°-20°	701.5	8.6
20°-30°	1048.1	12.9
30°-40°	1251.2	15.4
40°-50°	1251.3	15.4
50°-60°	1082.9	13.4
60°-70°	831.2	10.2
70°-80°	509.3	6.3
80°-90°	143.4	1.8
90°-100°	81.1	1.0
100°-110°	128.6	1.6
110°-120°	150.4	1.9
120°-130°	162.4	2.0
130°-140°	160.0	2.0
140°-150°	141.5	1.7
150°-160°	116.5	1.4
160°-170°	78.0	1.0
170°-180°	27.1	0.3
0°-30°	1996.3	24.6
0°-40°	3247.5	40.0
0°-60°	5581.7	68.8
0°-90°	7065.7	87.1
90°-120°	360.1	4.4
90°-150°	824.0	10.2
90°-180°	1046.0	12.9
0°-180°	8111.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2606	2606	2606	2606	2606	
5°	2606	2599	2576	2595	2591	248
15°	2539	2535	2490	2445	2422	718
25°	2404	2374	2246	2186	2171	1109
35°	2171	2115	1969	1898	1868	1360
45°	1841	1789	1631	1485	1294	1420
55°	1440	1406	1252	1001	911	1291
65°	1028	990	844	679	652	1015
75°	585	555	472	409	409	617
85°	169	139	101	86	86	176
90°	8	26	41	52	56	12
95°	30	64	86	90	90	30
105°	86	90	128	150	158	91
115°	142	120	150	172	184	139
125°	191	154	172	199	206	170
135°	229	206	191	210	221	176
145°	255	244	214	210	218	159
155°	270	266	251	240	236	125
165°	278	281	274	274	274	79
175°	281	285	285	289	289	27
180°	285	285	285	285	285	



TEST NUMBER: P520632

CATALOG NUMBER: 8WSLA-100-L835-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2606.3	2606.3	2606.3	2606.3	2606.3
2.5°	2613.8	2606.3	2587.5	2606.3	2602.5
5°	2606.3	2598.8	2576.3	2595.0	2591.3
7.5°	2595.0	2587.5	2565.0	2587.5	2583.8
10°	2583.8	2576.3	2553.8	2568.8	2557.5
12.5°	2565.0	2557.5	2531.3	2512.5	2490.0
15°	2538.8	2535.0	2490.0	2445.0	2422.5
17.5°	2516.3	2505.0	2433.8	2381.3	2355.0
20°	2486.3	2467.5	2373.8	2313.8	2295.0
22.5°	2452.5	2422.5	2310.0	2253.8	2238.8
25°	2403.8	2373.8	2246.3	2186.3	2171.3
27.5°	2355.0	2317.5	2182.5	2122.5	2107.5
30°	2302.5	2250.0	2111.3	2055.0	2028.8
32.5°	2242.5	2190.0	2043.8	1980.0	1950.0
35°	2171.3	2115.0	1968.8	1897.5	1867.5
37.5°	2103.8	2043.8	1893.8	1815.0	1773.8
40°	2021.3	1961.3	1807.5	1721.3	1680.0
42.5°	1935.0	1878.8	1725.0	1620.0	1518.8
45°	1841.3	1788.8	1631.3	1485.0	1293.8
47.5°	1743.8	1698.8	1545.0	1346.3	1162.5
50°	1646.3	1601.3	1451.3	1215.0	1061.3
52.5°	1548.8	1511.3	1346.3	1106.3	978.8
55°	1440.0	1406.3	1252.5	1001.3	911.3
57.5°	1342.5	1308.8	1143.8	915.0	840.0
60°	1233.8	1203.8	1042.5	828.8	772.5
62.5°	1132.5	1098.8	941.3	753.8	712.5
65°	1027.5	990.0	843.8	678.8	652.5
67.5°	918.8	881.3	750.0	611.3	596.3
70°	810.0	780.0	656.3	543.8	536.3
72.5°	697.5	663.8	562.5	480.0	480.0
75°	585.0	555.0	472.5	408.8	408.8
77.5°	468.8	453.8	378.8	333.8	337.5
80°	367.5	348.8	285.0	255.0	255.0
82.5°	270.0	247.5	191.3	168.8	176.3
85°	168.8	138.8	101.3	86.3	86.3
87.5°	52.5	41.3	30.0	33.8	33.8
90°	7.5	26.3	41.3	52.5	56.3
92.5°	18.8	48.8	60.0	71.3	75.0
95°	30.0	63.8	86.3	90.0	90.0
97.5°	41.3	71.3	105.0	120.0	120.0
100°	56.3	75.0	112.5	135.0	138.8
102.5°	71.3	82.5	120.0	142.5	150.0
105°	86.3	90.0	127.5	150.0	157.5



TEST NUMBER: P520632

CATALOG NUMBER: 8WSLA-100-L835-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	127.5	112.5	142.5	168.8	176.3
115°	142.5	120.0	150.0	172.5	183.8
117.5°	153.8	131.3	157.5	180.0	187.5
120°	165.0	138.8	161.3	187.5	195.0
122.5°	180.0	146.3	168.8	191.3	202.5
125°	191.3	153.8	172.5	198.8	206.3
127.5°	202.5	168.8	176.3	202.5	210.0
130°	210.0	183.8	180.0	206.3	213.8
132.5°	221.3	195.0	183.8	210.0	217.5
135°	228.8	206.3	191.3	210.0	221.3
137.5°	236.3	217.5	191.3	210.0	217.5
140°	243.8	228.8	195.0	210.0	217.5
142.5°	247.5	236.3	198.8	210.0	217.5
145°	255.0	243.8	213.8	210.0	217.5
147.5°	258.8	251.3	225.0	210.0	217.5
150°	262.5	258.8	236.3	213.8	213.8
152.5°	266.3	262.5	243.8	228.8	221.3
155°	270.0	266.3	251.3	240.0	236.3
157.5°	273.8	273.8	258.8	251.3	247.5
160°	273.8	277.5	266.3	258.8	255.0
162.5°	277.5	281.3	270.0	266.3	262.5
165°	277.5	281.3	273.8	273.8	273.8
167.5°	281.3	285.0	281.3	277.5	277.5
170°	281.3	285.0	281.3	281.3	281.3
172.5°	281.3	285.0	285.0	285.0	285.0
175°	281.3	285.0	285.0	288.8	288.8
177.5°	281.3	285.0	285.0	285.0	285.0
180°	285.0	285.0	285.0	285.0	285.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	101.3	97.5	131.3	157.5	165.0
110°	112.5	105.0	138.8	161.3	168.8



(END OF REPORT)