

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: FAIL-SAFE

Report Number: P520632

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

Issue Date: 5/3/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



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: FAIL-SAFE
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: -

Luminaire Equipment: Sample No. Condition Description

Summary

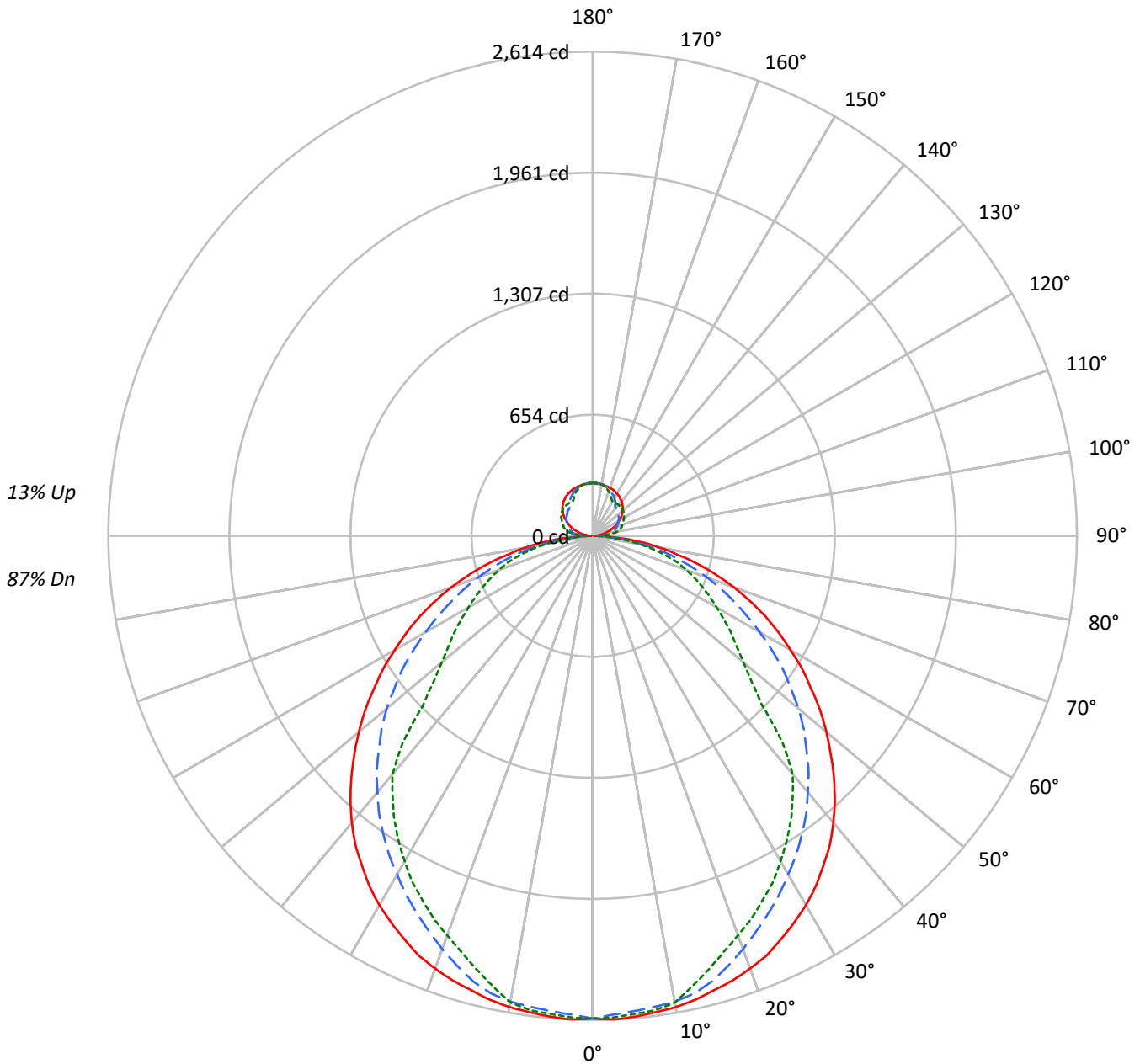
Lumens per Lamp: N/A
Luminaire Lumens: 8111.3 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 63.4
Input Voltage (V): NR
Input Current (Ain): 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)