

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: P520628

Luminaire Tested: **8WSLA-100-L830-UPL15-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: P520628
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: FAIL-SAFE
Catalog Number: 8WSLA-100-L830-UPL15-UNV-U
Description: 8 FOOT, 2000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

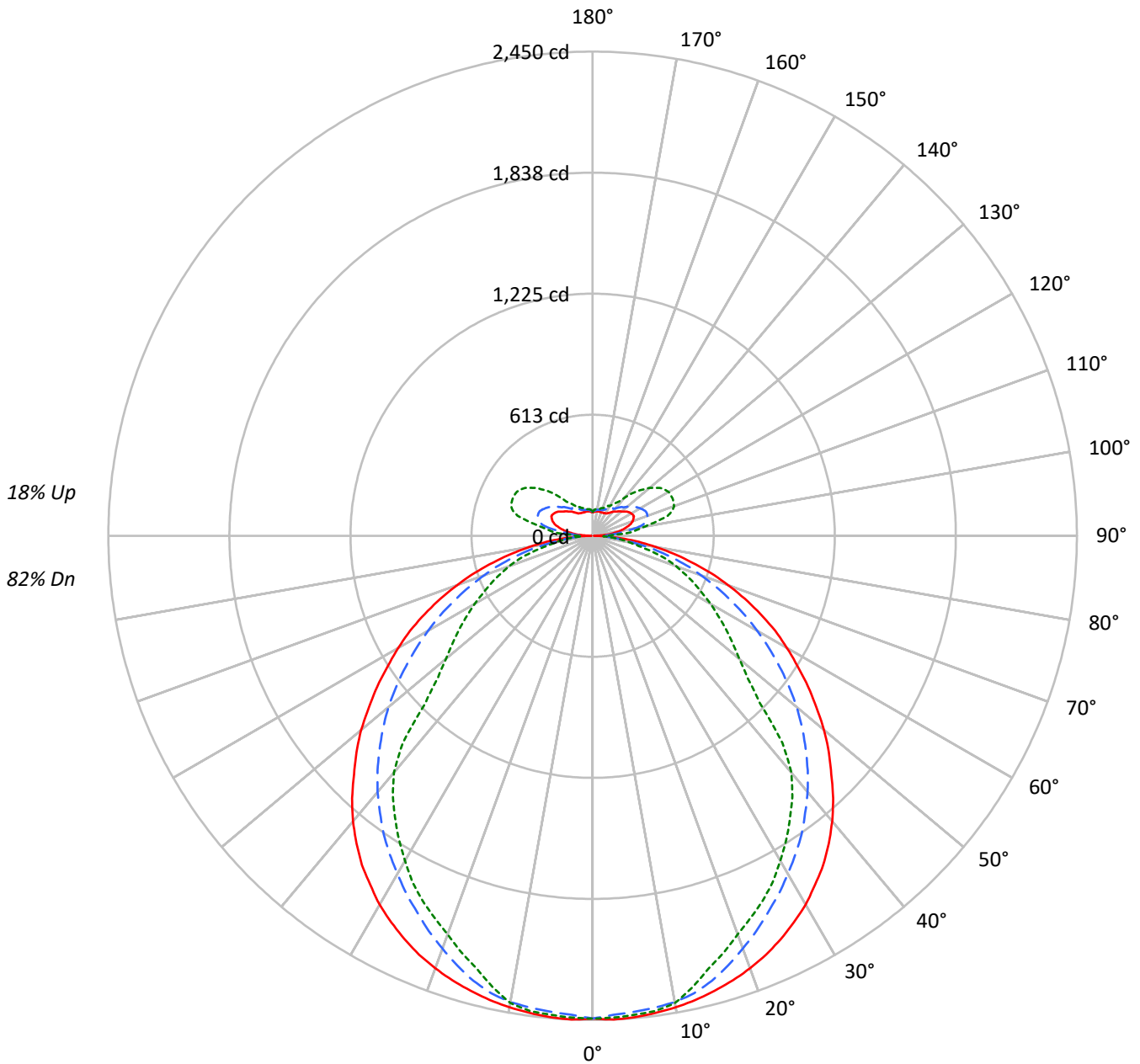
Lumens per Lamp: N/A
Luminaire Lumens: 7912.0 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 63.4
Input Voltage (V): NR
Input Current (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	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°	6574	6574	6574
5°	6606	6532	6572
10°	6621	6547	6560
15°	6640	6495	6316
20°	6670	6365	6145
25°	6687	6239	6047
30°	6698	6136	5897
35°	6683	6056	5722
40°	6623	5945	5492
45°	6497	5799	4554
50°	6400	5643	4056
55°	6242	5417	3859
60°	6107	5174	3707
65°	5964	4891	3597
70°	5731	4581	3529
75°	5410	4199	3246
80°	4953	3532	2879
85°	4437	3060	2908



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.5	2.9
10°-20°	657.7	8.3
20°-30°	981.6	12.4
30°-40°	1169.5	14.8
40°-50°	1163.3	14.7
50°-60°	997.0	12.6
60°-70°	750.9	9.5
70°-80°	434.9	5.5
80°-90°	130.7	1.7
90°-100°	140.3	1.8
100°-110°	288.1	3.6
110°-120°	304.7	3.9
120°-130°	254.2	3.2
130°-140°	177.5	2.2
140°-150°	110.5	1.4
150°-160°	68.5	0.9
160°-170°	38.6	0.5
170°-180°	12.4	0.2
0°-30°	1870.8	23.6
0°-40°	3040.4	38.4
0°-60°	5200.7	65.7
0°-90°	6517.1	82.4
90°-120°	733.1	9.3
90°-150°	1275.3	16.1
90°-180°	1395.0	17.6
0°-180°	7912.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2443	2443	2443	2443	2443	
5°	2446	2438	2418	2436	2433	233
15°	2384	2381	2332	2292	2267	674
25°	2252	2220	2101	2049	2037	1038
35°	2034	1980	1843	1772	1742	1271
45°	1707	1665	1524	1373	1197	1320
55°	1330	1311	1155	917	823	1189
65°	937	914	768	597	565	926
75°	520	503	404	322	312	551
85°	144	126	99	94	94	153
90°	7	35	60	74	79	15
95°	79	106	121	178	193	76
105°	186	193	278	372	394	193
115°	230	196	295	406	446	224
125°	213	188	255	374	421	189
135°	173	188	206	278	320	135
145°	141	164	178	191	203	90
155°	129	136	146	159	161	59
165°	126	131	136	141	141	36
175°	124	126	129	131	134	12
180°	121	121	121	121	121	



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CATALOG NUMBER: 8WSLA-100-L830-UPL15-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2443.0	2443.0	2443.0	2443.0	2443.0
2.5°	2450.4	2445.5	2425.7	2445.5	2440.5
5°	2445.5	2438.1	2418.2	2435.6	2433.1
7.5°	2435.6	2430.6	2408.3	2428.1	2425.7
10°	2423.2	2415.8	2395.9	2410.8	2400.9
12.5°	2405.8	2400.9	2371.2	2358.8	2338.9
15°	2383.5	2381.1	2331.5	2291.9	2267.1
17.5°	2358.8	2348.9	2279.5	2232.4	2210.1
20°	2329.0	2314.2	2222.5	2168.0	2145.7
22.5°	2294.3	2272.0	2165.5	2113.5	2091.2
25°	2252.2	2220.0	2101.1	2049.1	2036.7
27.5°	2205.1	2168.0	2041.6	1989.6	1974.7
30°	2155.6	2108.5	1974.7	1925.2	1897.9
32.5°	2093.7	2049.1	1910.3	1853.3	1823.6
35°	2034.2	1979.7	1843.4	1771.6	1741.8
37.5°	1962.3	1907.8	1766.6	1694.7	1660.1
40°	1885.5	1831.0	1692.3	1608.0	1563.4
42.5°	1801.3	1751.7	1610.5	1508.9	1422.2
45°	1707.1	1665.0	1523.8	1372.6	1196.7
47.5°	1620.4	1580.8	1437.1	1241.3	1060.5
50°	1528.7	1491.6	1347.9	1117.4	968.8
52.5°	1427.2	1399.9	1251.2	1010.9	892.0
55°	1330.5	1310.7	1154.6	916.7	822.6
57.5°	1228.9	1209.1	1058.0	827.5	753.2
60°	1134.8	1115.0	961.3	748.3	688.8
62.5°	1040.6	1013.4	867.2	671.5	621.9
65°	936.6	914.3	768.1	597.1	564.9
67.5°	832.5	812.7	676.4	527.7	505.4
70°	728.4	711.1	582.3	460.9	448.5
72.5°	626.9	604.6	498.0	394.0	389.0
75°	520.3	503.0	403.9	322.1	312.2
77.5°	418.7	403.9	317.1	245.3	237.9
80°	319.6	304.8	227.9	178.4	185.8
82.5°	235.4	215.6	153.6	138.8	146.2
85°	143.7	126.4	99.1	94.2	94.2
87.5°	49.6	47.1	44.6	52.0	54.5
90°	7.4	34.7	59.5	74.3	79.3
92.5°	42.1	61.9	81.8	96.6	101.6
95°	79.3	106.5	121.4	178.4	193.3
97.5°	109.0	141.2	158.6	210.6	225.5
100°	138.8	168.5	223.0	250.2	267.6
102.5°	163.5	185.8	262.6	317.1	327.1
105°	185.8	193.3	277.5	371.7	394.0



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CATALOG NUMBER: 8WSLA-100-L830-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	223.0	198.2	297.3	403.9	443.5
115°	230.4	195.7	294.8	406.3	446.0
117.5°	230.4	195.7	287.4	406.3	446.0
120°	225.5	198.2	277.5	401.4	443.5
122.5°	220.5	193.3	267.6	391.5	433.6
125°	213.1	188.3	255.2	374.1	421.2
127.5°	200.7	193.3	242.8	351.8	398.9
130°	190.8	195.7	227.9	329.5	376.6
132.5°	183.3	190.8	213.1	304.8	346.9
135°	173.4	188.3	205.6	277.5	319.6
137.5°	166.0	180.9	193.3	252.7	287.4
140°	158.6	175.9	180.9	220.5	250.2
142.5°	148.7	168.5	171.0	205.6	218.0
145°	141.2	163.5	178.4	190.8	203.2
147.5°	133.8	153.6	173.4	175.9	188.3
150°	131.3	143.7	166.0	168.5	173.4
152.5°	128.8	138.8	153.6	168.5	171.0
155°	128.8	136.3	146.2	158.6	161.1
157.5°	126.4	136.3	141.2	151.1	153.6
160°	126.4	133.8	138.8	146.2	148.7
162.5°	126.4	133.8	136.3	143.7	146.2
165°	126.4	131.3	136.3	141.2	141.2
167.5°	126.4	131.3	133.8	138.8	138.8
170°	126.4	128.8	133.8	136.3	136.3
172.5°	123.9	128.8	131.3	136.3	136.3
175°	123.9	126.4	128.8	131.3	133.8
177.5°	118.9	126.4	128.8	131.3	128.8
180°	121.4	121.4	121.4	121.4	121.4



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	203.2	195.7	287.4	391.5	423.7
110°	215.6	198.2	294.8	398.9	438.6



(END OF REPORT)