

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: P520634

Luminaire Tested: **8WSLA-100-L840-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: P520634
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-L840-UPL15-UNV-U
Description: 8 FOOT, 2000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

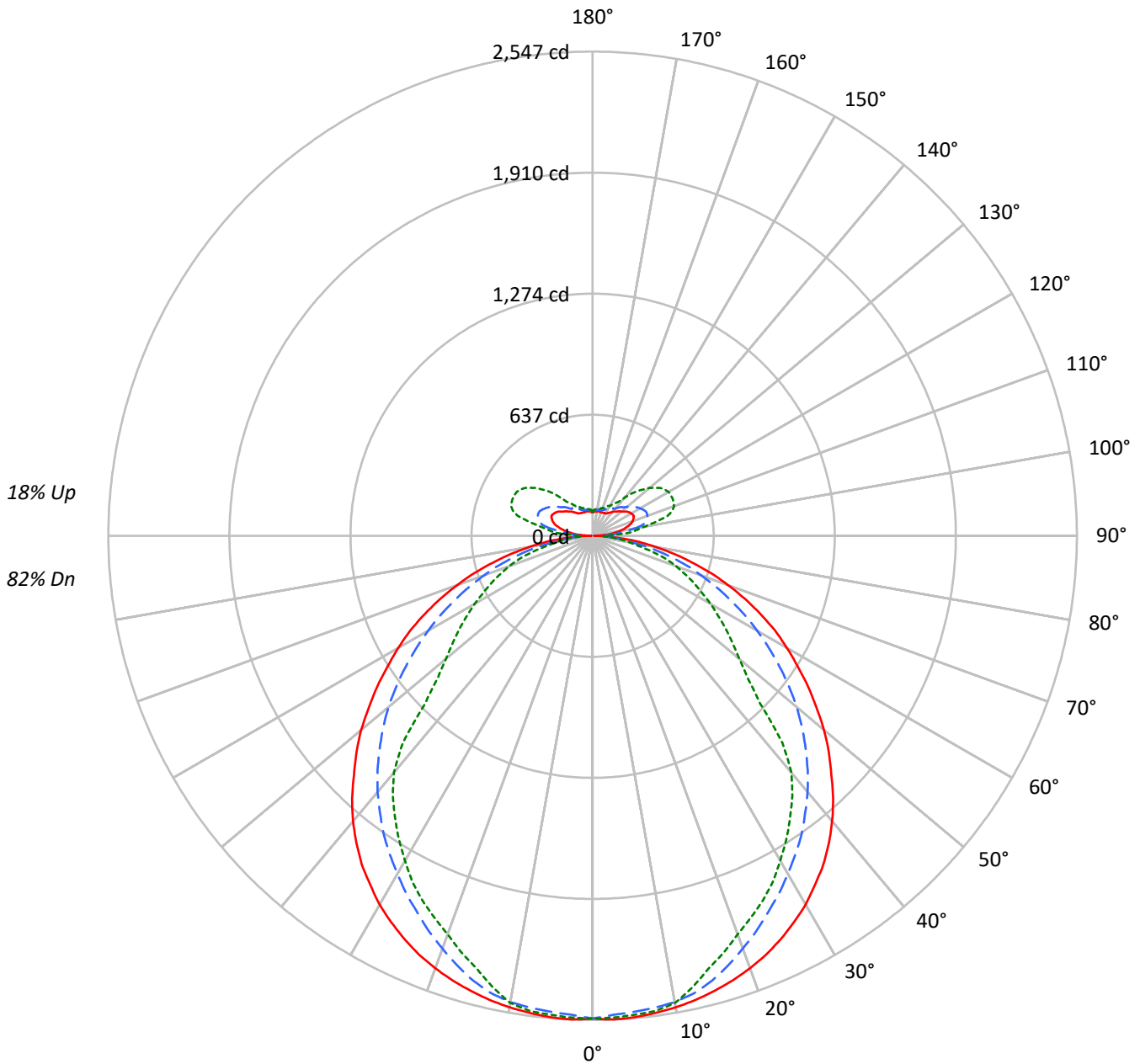
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8225.0 lumens
Efficiency: N/A
Efficacy: 129.7 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

TEST NUMBER: P520634
CATALOG NUMBER: 8WSLA-100-L840-UPL15-UNV-U

Luminous Intensity Polar Plot





TEST NUMBER: P520634

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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°	6834	6834	6834
5°	6867	6791	6832
10°	6883	6806	6820
15°	6903	6752	6566
20°	6934	6616	6388
25°	6952	6485	6286
30°	6963	6379	6131
35°	6947	6295	5948
40°	6885	6180	5709
45°	6754	6028	4735
50°	6653	5866	4216
55°	6489	5631	4012
60°	6349	5379	3853
65°	6199	5084	3740
70°	5958	4762	3668
75°	5624	4365	3374
80°	5150	3673	2994
85°	4613	3180	3023



TEST NUMBER: P520634

CATALOG NUMBER: 8WSLA-100-L840-UPL15-UNV-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.7	2.9
10°-20°	683.7	8.3
20°-30°	1020.4	12.4
30°-40°	1215.8	14.8
40°-50°	1209.3	14.7
50°-60°	1036.5	12.6
60°-70°	780.6	9.5
70°-80°	452.1	5.5
80°-90°	135.9	1.7
90°-100°	145.9	1.8
100°-110°	299.5	3.6
110°-120°	316.7	3.9
120°-130°	264.2	3.2
130°-140°	184.6	2.2
140°-150°	114.9	1.4
150°-160°	71.2	0.9
160°-170°	40.1	0.5
170°-180°	12.9	0.2
0°-30°	1944.8	23.6
0°-40°	3160.6	38.4
0°-60°	5406.4	65.7
0°-90°	6774.9	82.4
90°-120°	762.1	9.3
90°-150°	1325.8	16.1
90°-180°	1450.0	17.6
0°-180°	8225.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2540	2540	2540	2540	2540	
5°	2542	2534	2514	2532	2529	242
15°	2478	2475	2424	2382	2357	700
25°	2341	2308	2184	2130	2117	1079
35°	2115	2058	1916	1842	1811	1321
45°	1775	1731	1584	1427	1244	1372
55°	1383	1363	1200	953	855	1237
65°	974	950	798	621	587	962
75°	541	523	420	335	324	573
85°	149	131	103	98	98	159
90°	8	36	62	77	82	15
95°	82	111	126	186	201	79
105°	193	201	288	386	410	200
115°	240	204	306	422	464	233
125°	222	196	265	389	438	197
135°	180	196	214	288	332	141
145°	147	170	186	198	211	93
155°	134	142	152	165	167	62
165°	131	136	142	147	147	37
175°	129	131	134	136	139	12
180°	126	126	126	126	126	



TEST NUMBER: P520634

CATALOG NUMBER: 8WSLA-100-L840-UPL15-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2539.7	2539.7	2539.7	2539.7	2539.7
2.5°	2547.4	2542.2	2521.6	2542.2	2537.1
5°	2542.2	2534.5	2513.9	2531.9	2529.3
7.5°	2531.9	2526.8	2503.6	2524.2	2521.6
10°	2519.0	2511.3	2490.7	2506.2	2495.9
12.5°	2501.0	2495.9	2465.0	2452.1	2431.5
15°	2477.8	2475.3	2423.7	2382.5	2356.8
17.5°	2452.1	2441.8	2369.7	2320.7	2297.5
20°	2421.2	2405.7	2310.4	2253.7	2230.6
22.5°	2385.1	2361.9	2251.2	2197.1	2173.9
25°	2341.3	2307.8	2184.2	2130.1	2117.2
27.5°	2292.4	2253.7	2122.4	2068.3	2052.8
30°	2240.9	2191.9	2052.8	2001.3	1973.0
32.5°	2176.5	2130.1	1985.9	1926.6	1895.7
35°	2114.7	2058.0	1916.3	1841.6	1810.7
37.5°	2040.0	1983.3	1836.5	1761.8	1725.7
40°	1960.1	1903.5	1759.2	1671.6	1625.3
42.5°	1872.5	1821.0	1674.2	1568.6	1478.5
45°	1774.7	1730.9	1584.1	1426.9	1244.1
47.5°	1684.5	1643.3	1493.9	1290.4	1102.4
50°	1589.2	1550.6	1401.2	1161.6	1007.1
52.5°	1483.6	1455.3	1300.7	1050.9	927.3
55°	1383.2	1362.6	1200.3	953.0	855.1
57.5°	1277.6	1256.9	1099.8	860.3	783.0
60°	1179.7	1159.1	999.4	777.9	716.0
62.5°	1081.8	1053.5	901.5	698.0	646.5
65°	973.6	950.4	798.5	620.7	587.3
67.5°	865.4	844.8	703.2	548.6	525.4
70°	757.3	739.2	605.3	479.1	466.2
72.5°	651.7	628.5	517.7	409.5	404.4
75°	540.9	522.9	419.8	334.8	324.5
77.5°	435.3	419.8	329.7	255.0	247.3
80°	332.3	316.8	237.0	185.5	193.2
82.5°	244.7	224.1	159.7	144.2	152.0
85°	149.4	131.4	103.0	97.9	97.9
87.5°	51.5	48.9	46.4	54.1	56.7
90°	7.7	36.1	61.8	77.3	82.4
92.5°	43.8	64.4	85.0	100.5	105.6
95°	82.4	110.8	126.2	185.5	200.9
97.5°	113.3	146.8	164.8	218.9	234.4
100°	144.2	175.1	231.8	260.1	278.2
102.5°	170.0	193.2	273.0	329.7	340.0
105°	193.2	200.9	288.5	386.4	409.5



TEST NUMBER: P520634

CATALOG NUMBER: 8WSLA-100-L840-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	231.8	206.1	309.1	419.8	461.1
115°	239.5	203.5	306.5	422.4	463.6
117.5°	239.5	203.5	298.8	422.4	463.6
120°	234.4	206.1	288.5	417.3	461.1
122.5°	229.2	200.9	278.2	407.0	450.7
125°	221.5	195.8	265.3	388.9	437.9
127.5°	208.6	200.9	252.4	365.8	414.7
130°	198.3	203.5	237.0	342.6	391.5
132.5°	190.6	198.3	221.5	316.8	360.6
135°	180.3	195.8	213.8	288.5	332.3
137.5°	172.6	188.0	200.9	262.7	298.8
140°	164.8	182.9	188.0	229.2	260.1
142.5°	154.5	175.1	177.7	213.8	226.7
145°	146.8	170.0	185.5	198.3	211.2
147.5°	139.1	159.7	180.3	182.9	195.8
150°	136.5	149.4	172.6	175.1	180.3
152.5°	133.9	144.2	159.7	175.1	177.7
155°	133.9	141.7	152.0	164.8	167.4
157.5°	131.4	141.7	146.8	157.1	159.7
160°	131.4	139.1	144.2	152.0	154.5
162.5°	131.4	139.1	141.7	149.4	152.0
165°	131.4	136.5	141.7	146.8	146.8
167.5°	131.4	136.5	139.1	144.2	144.2
170°	131.4	133.9	139.1	141.7	141.7
172.5°	128.8	133.9	136.5	141.7	141.7
175°	128.8	131.4	133.9	136.5	139.1
177.5°	123.6	131.4	133.9	136.5	133.9
180°	126.2	126.2	126.2	126.2	126.2



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	211.2	203.5	298.8	407.0	440.4
110°	224.1	206.1	306.5	414.7	455.9



(END OF REPORT)