

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: P520785

Luminaire Tested: **8WSLA-75-L930-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: P520785
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-75-L930-UPL8-UNV-U
Description: 8 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 90 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

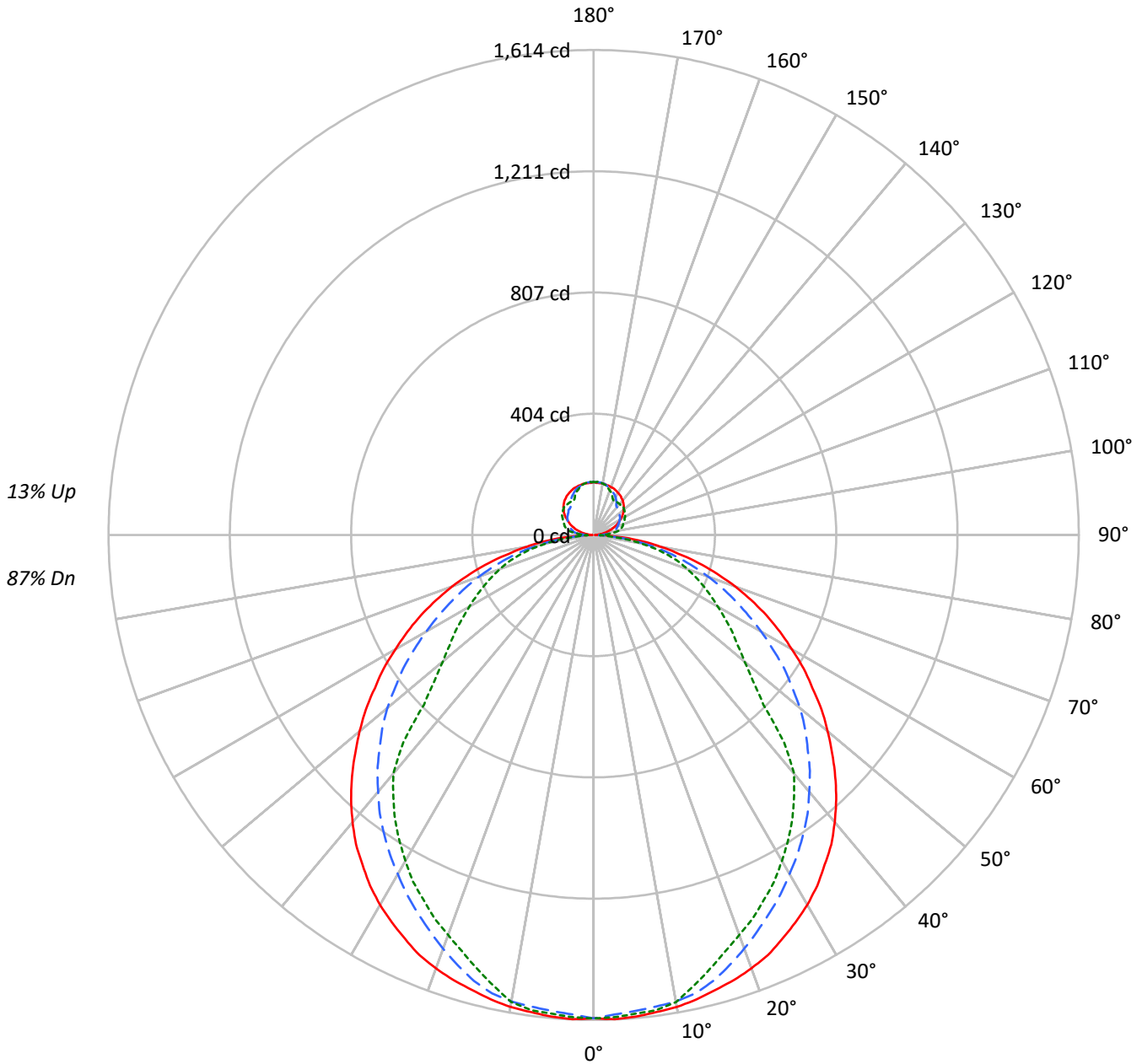
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5007.0 lumens
Efficiency: N/A
Efficacy: 107.4 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): 46.6
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°	4330	4330	4330
5°	4346	4296	4321
10°	4358	4308	4314
15°	4366	4282	4166
20°	4395	4196	4057
25°	4406	4117	3980
30°	4417	4050	3892
35°	4403	3992	3787
40°	4383	3920	3643
45°	4325	3832	3039
50°	4254	3751	2743
55°	4170	3628	2639
60°	4099	3463	2567
65°	4039	3317	2565
70°	3934	3187	2604
75°	3754	3033	2623
80°	3516	2726	2439
85°	3217	1930	1643



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.3	3.0
10°-20°	433.0	8.6
20°-30°	647.0	12.9
30°-40°	772.3	15.4
40°-50°	772.4	15.4
50°-60°	668.5	13.4
60°-70°	513.1	10.2
70°-80°	314.4	6.3
80°-90°	88.5	1.8
90°-100°	50.0	1.0
100°-110°	79.4	1.6
110°-120°	92.8	1.9
120°-130°	100.2	2.0
130°-140°	98.8	2.0
140°-150°	87.4	1.7
150°-160°	71.9	1.4
160°-170°	48.1	1.0
170°-180°	16.8	0.3
0°-30°	1232.3	24.6
0°-40°	2004.7	40.0
0°-60°	3445.6	68.8
0°-90°	4361.6	87.1
90°-120°	222.3	4.4
90°-150°	508.6	10.2
90°-180°	645.0	12.9
0°-180°	5007.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1609	1609	1609	1609	1609	
5°	1609	1604	1590	1602	1600	153
15°	1567	1565	1537	1509	1495	443
25°	1484	1465	1387	1350	1340	685
35°	1340	1306	1215	1171	1153	839
45°	1137	1104	1007	917	799	876
55°	889	868	773	618	562	797
65°	634	611	521	419	403	627
75°	361	343	292	252	252	381
85°	104	86	62	53	53	109
90°	5	16	26	32	35	7
95°	18	39	53	56	56	18
105°	53	56	79	93	97	56
115°	88	74	93	106	113	86
125°	118	95	106	123	127	105
135°	141	127	118	130	137	109
145°	157	150	132	130	134	98
155°	167	164	155	148	146	77
165°	171	174	169	169	169	49
175°	174	176	176	178	178	17
180°	176	176	176	176	176	



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CATALOG NUMBER: 8WSLA-75-L930-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1608.9	1608.9	1608.9	1608.9	1608.9
2.5°	1613.5	1608.9	1597.3	1608.9	1606.6
5°	1608.9	1604.2	1590.3	1601.9	1599.6
7.5°	1601.9	1597.3	1583.4	1597.3	1595.0
10°	1595.0	1590.3	1576.5	1585.7	1578.8
12.5°	1583.4	1578.8	1562.6	1551.0	1537.1
15°	1567.2	1564.9	1537.1	1509.3	1495.4
17.5°	1553.3	1546.4	1502.4	1470.0	1453.8
20°	1534.8	1523.2	1465.3	1428.3	1416.7
22.5°	1514.0	1495.4	1426.0	1391.3	1382.0
25°	1483.9	1465.3	1386.6	1349.6	1340.3
27.5°	1453.8	1430.6	1347.3	1310.2	1301.0
30°	1421.4	1388.9	1303.3	1268.6	1252.4
32.5°	1384.3	1351.9	1261.6	1222.3	1203.8
35°	1340.3	1305.6	1215.3	1171.3	1152.8
37.5°	1298.7	1261.6	1169.0	1120.4	1095.0
40°	1247.7	1210.7	1115.8	1062.5	1037.1
42.5°	1194.5	1159.8	1064.9	1000.0	937.5
45°	1136.6	1104.2	1007.0	916.7	798.6
47.5°	1076.4	1048.7	953.7	831.1	717.6
50°	1016.2	988.5	895.9	750.0	655.1
52.5°	956.1	932.9	831.1	682.9	604.2
55°	888.9	868.1	773.2	618.1	562.5
57.5°	828.7	807.9	706.0	564.8	518.5
60°	761.6	743.1	643.5	511.6	476.9
62.5°	699.1	678.3	581.0	465.3	439.8
65°	634.3	611.1	520.9	419.0	402.8
67.5°	567.2	544.0	463.0	377.3	368.1
70°	500.0	481.5	405.1	335.7	331.0
72.5°	430.6	409.7	347.2	296.3	296.3
75°	361.1	342.6	291.7	252.3	252.3
77.5°	289.4	280.1	233.8	206.0	208.3
80°	226.9	215.3	175.9	157.4	157.4
82.5°	166.7	152.8	118.1	104.2	108.8
85°	104.2	85.7	62.5	53.2	53.2
87.5°	32.4	25.5	18.5	20.8	20.8
90°	4.6	16.2	25.5	32.4	34.7
92.5°	11.6	30.1	37.0	44.0	46.3
95°	18.5	39.4	53.2	55.6	55.6
97.5°	25.5	44.0	64.8	74.1	74.1
100°	34.7	46.3	69.4	83.3	85.7
102.5°	44.0	50.9	74.1	88.0	92.6
105°	53.2	55.6	78.7	92.6	97.2



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CATALOG NUMBER: 8WSLA-75-L930-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	78.7	69.4	88.0	104.2	108.8
115°	88.0	74.1	92.6	106.5	113.4
117.5°	94.9	81.0	97.2	111.1	115.7
120°	101.9	85.7	99.5	115.7	120.4
122.5°	111.1	90.3	104.2	118.1	125.0
125°	118.1	94.9	106.5	122.7	127.3
127.5°	125.0	104.2	108.8	125.0	129.6
130°	129.6	113.4	111.1	127.3	132.0
132.5°	136.6	120.4	113.4	129.6	134.3
135°	141.2	127.3	118.1	129.6	136.6
137.5°	145.8	134.3	118.1	129.6	134.3
140°	150.5	141.2	120.4	129.6	134.3
142.5°	152.8	145.8	122.7	129.6	134.3
145°	157.4	150.5	132.0	129.6	134.3
147.5°	159.7	155.1	138.9	129.6	134.3
150°	162.0	159.7	145.8	132.0	132.0
152.5°	164.4	162.0	150.5	141.2	136.6
155°	166.7	164.4	155.1	148.2	145.8
157.5°	169.0	169.0	159.7	155.1	152.8
160°	169.0	171.3	164.4	159.7	157.4
162.5°	171.3	173.6	166.7	164.4	162.0
165°	171.3	173.6	169.0	169.0	169.0
167.5°	173.6	175.9	173.6	171.3	171.3
170°	173.6	175.9	173.6	173.6	173.6
172.5°	173.6	175.9	175.9	175.9	175.9
175°	173.6	175.9	175.9	178.2	178.2
177.5°	173.6	175.9	175.9	175.9	175.9
180°	175.9	175.9	175.9	175.9	175.9



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	62.5	60.2	81.0	97.2	101.9
110°	69.4	64.8	85.7	99.5	104.2



(END OF REPORT)