

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: P520784

Luminaire Tested: **8WSLA-75-L930-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: P520784
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-75-L930-UPL15-UNV-U
Description: 8 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 90 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

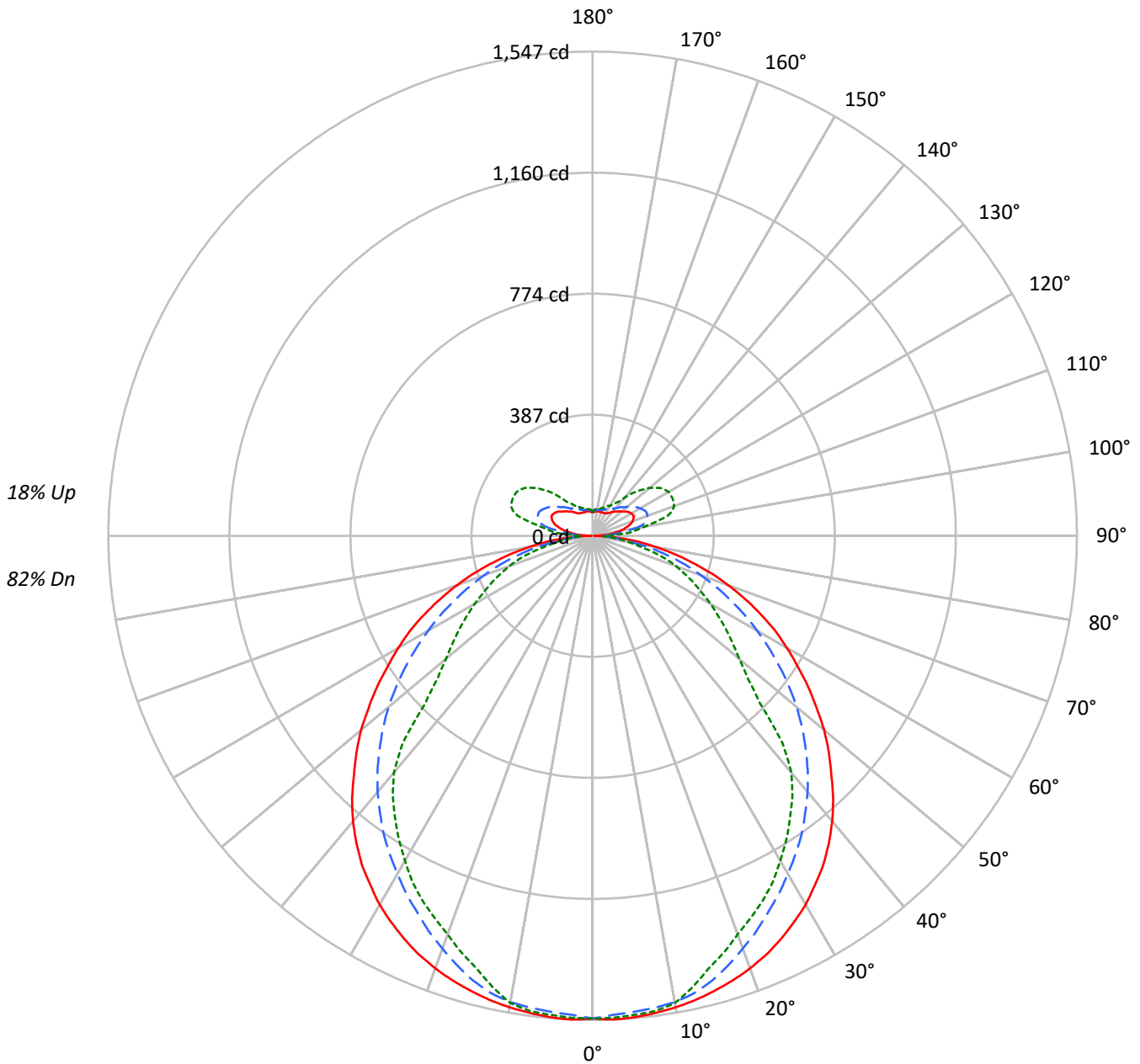
Lumens per Lamp: N/A
Luminaire Lumens: 4996.0 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 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

TEST NUMBER: P520784

CATALOG NUMBER: 8WSLA-75-L930-UPL15-UNV-U

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°	4151	4151	4151
5°	4171	4125	4150
10°	4181	4134	4142
15°	4193	4101	3988
20°	4212	4019	3880
25°	4223	3939	3818
30°	4229	3874	3724
35°	4220	3824	3613
40°	4182	3754	3468
45°	4102	3662	2876
50°	4041	3563	2561
55°	3942	3421	2437
60°	3857	3267	2341
65°	3766	3088	2271
70°	3619	2893	2228
75°	3417	2651	2049
80°	3127	2230	1818
85°	2800	1933	1837



TEST NUMBER: P520784

CATALOG NUMBER: 8WSLA-75-L930-UPL15-UNV-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.2	2.9
10°-20°	415.3	8.3
20°-30°	619.8	12.4
30°-40°	738.5	14.8
40°-50°	734.6	14.7
50°-60°	629.6	12.6
60°-70°	474.1	9.5
70°-80°	274.6	5.5
80°-90°	82.5	1.7
90°-100°	88.6	1.8
100°-110°	181.9	3.6
110°-120°	192.4	3.9
120°-130°	160.5	3.2
130°-140°	112.1	2.2
140°-150°	69.8	1.4
150°-160°	43.3	0.9
160°-170°	24.4	0.5
170°-180°	7.9	0.2
0°-30°	1181.3	23.6
0°-40°	1919.8	38.4
0°-60°	3283.9	65.7
0°-90°	4115.2	82.4
90°-120°	462.9	9.3
90°-150°	805.3	16.1
90°-180°	881.0	17.6
0°-180°	4996.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1543	1543	1543	1543	1543	
5°	1544	1540	1527	1538	1536	147
15°	1505	1504	1472	1447	1432	425
25°	1422	1402	1327	1294	1286	656
35°	1284	1250	1164	1119	1100	802
45°	1078	1051	962	867	756	833
55°	840	828	729	579	519	751
65°	591	577	485	377	357	585
75°	329	318	255	203	197	348
85°	91	80	63	60	60	97
90°	5	22	38	47	50	9
95°	50	67	77	113	122	48
105°	117	122	175	235	249	122
115°	146	124	186	257	282	142
125°	134	119	161	236	266	119
135°	110	119	130	175	202	85
145°	89	103	113	120	128	57
155°	81	86	92	100	102	38
165°	80	83	86	89	89	23
175°	78	80	81	83	84	7
180°	77	77	77	77	77	



TEST NUMBER: P520784

CATALOG NUMBER: 8WSLA-75-L930-UPL15-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1542.6	1542.6	1542.6	1542.6	1542.6
2.5°	1547.3	1544.2	1531.7	1544.2	1541.1
5°	1544.2	1539.5	1527.0	1537.9	1536.4
7.5°	1537.9	1534.8	1520.7	1533.2	1531.7
10°	1530.1	1525.4	1512.9	1522.3	1516.0
12.5°	1519.2	1516.0	1497.3	1489.4	1476.9
15°	1505.1	1503.5	1472.2	1447.2	1431.5
17.5°	1489.4	1483.2	1439.4	1409.6	1395.6
20°	1470.7	1461.3	1403.4	1369.0	1354.9
22.5°	1448.8	1434.7	1367.4	1334.5	1320.5
25°	1422.2	1401.8	1326.7	1293.9	1286.0
27.5°	1392.4	1369.0	1289.2	1256.3	1246.9
30°	1361.1	1331.4	1246.9	1215.6	1198.4
32.5°	1322.0	1293.9	1206.3	1170.3	1151.5
35°	1284.5	1250.1	1164.0	1118.6	1099.9
37.5°	1239.1	1204.7	1115.5	1070.1	1048.2
40°	1190.6	1156.2	1068.6	1015.4	987.2
42.5°	1137.4	1106.1	1016.9	952.8	898.0
45°	1078.0	1051.4	962.2	866.7	755.7
47.5°	1023.2	998.2	907.4	783.8	669.6
50°	965.3	941.8	851.1	705.6	611.7
52.5°	901.2	884.0	790.1	638.3	563.2
55°	840.2	827.6	729.1	578.9	519.4
57.5°	776.0	763.5	668.1	522.6	475.6
60°	716.6	704.0	607.0	472.5	434.9
62.5°	657.1	639.9	547.6	424.0	392.7
65°	591.4	577.3	485.0	377.1	356.7
67.5°	525.7	513.2	427.1	333.2	319.2
70°	460.0	449.0	367.7	291.0	283.2
72.5°	395.8	381.7	314.5	248.8	245.6
75°	328.6	317.6	255.0	203.4	197.1
77.5°	264.4	255.0	200.3	154.9	150.2
80°	201.8	192.4	143.9	112.6	117.3
82.5°	148.6	136.1	97.0	87.6	92.3
85°	90.7	79.8	62.6	59.5	59.5
87.5°	31.3	29.7	28.2	32.9	34.4
90°	4.7	21.9	37.5	46.9	50.1
92.5°	26.6	39.1	51.6	61.0	64.1
95°	50.1	67.3	76.7	112.6	122.0
97.5°	68.8	89.2	100.1	133.0	142.4
100°	87.6	106.4	140.8	158.0	169.0
102.5°	103.3	117.3	165.8	200.3	206.5
105°	117.3	122.0	175.2	234.7	248.8



TEST NUMBER: P520784

CATALOG NUMBER: 8WSLA-75-L930-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	140.8	125.2	187.7	255.0	280.1
115°	145.5	123.6	186.2	256.6	281.6
117.5°	145.5	123.6	181.5	256.6	281.6
120°	142.4	125.2	175.2	253.5	280.1
122.5°	139.2	122.0	169.0	247.2	273.8
125°	134.5	118.9	161.1	236.2	266.0
127.5°	126.7	122.0	153.3	222.2	251.9
130°	120.5	123.6	143.9	208.1	237.8
132.5°	115.8	120.5	134.5	192.4	219.0
135°	109.5	118.9	129.9	175.2	201.8
137.5°	104.8	114.2	122.0	159.6	181.5
140°	100.1	111.1	114.2	139.2	158.0
142.5°	93.9	106.4	108.0	129.9	137.7
145°	89.2	103.3	112.6	120.5	128.3
147.5°	84.5	97.0	109.5	111.1	118.9
150°	82.9	90.7	104.8	106.4	109.5
152.5°	81.4	87.6	97.0	106.4	108.0
155°	81.4	86.0	92.3	100.1	101.7
157.5°	79.8	86.0	89.2	95.4	97.0
160°	79.8	84.5	87.6	92.3	93.9
162.5°	79.8	84.5	86.0	90.7	92.3
165°	79.8	82.9	86.0	89.2	89.2
167.5°	79.8	82.9	84.5	87.6	87.6
170°	79.8	81.4	84.5	86.0	86.0
172.5°	78.2	81.4	82.9	86.0	86.0
175°	78.2	79.8	81.4	82.9	84.5
177.5°	75.1	79.8	81.4	82.9	81.4
180°	76.7	76.7	76.7	76.7	76.7



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	128.3	123.6	181.5	247.2	267.5
110°	136.1	125.2	186.2	251.9	276.9



(END OF REPORT)