

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: P520793

Luminaire Tested: **8WSLA-75-L950-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: P520793
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-L950-UPL15-UNV-U
Description: 8 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 90 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

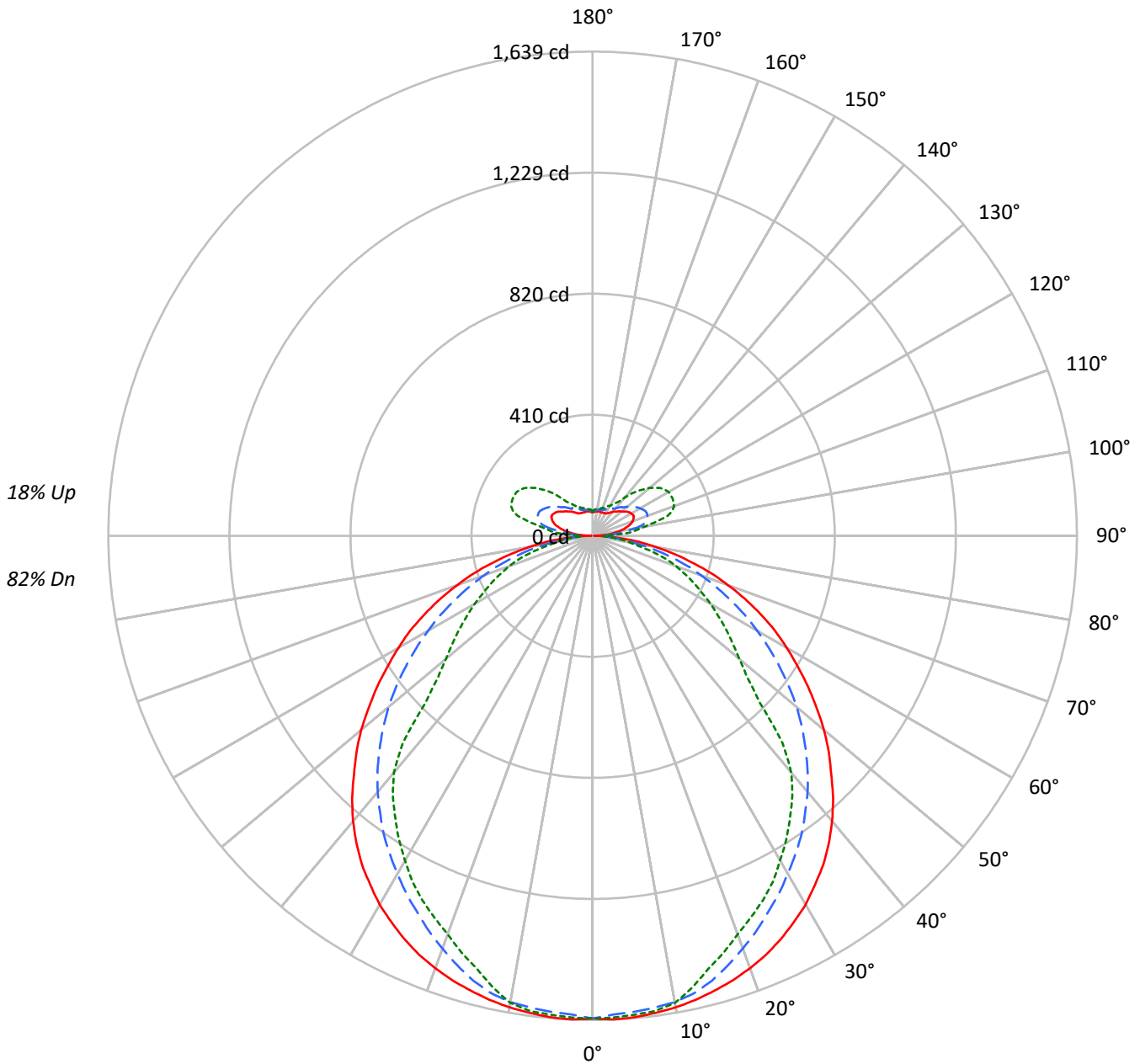
Lumens per Lamp: N/A
Luminaire Lumens: 5292.0 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

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

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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°	4397	4397	4397
5°	4418	4369	4396
10°	4429	4379	4388
15°	4441	4344	4225
20°	4461	4257	4110
25°	4473	4173	4045
30°	4480	4104	3944
35°	4470	4051	3827
40°	4430	3976	3673
45°	4345	3879	3046
50°	4281	3774	2713
55°	4175	3623	2581
60°	4085	3461	2479
65°	3989	3271	2406
70°	3833	3064	2360
75°	3618	2808	2171
80°	3313	2363	1926
85°	2967	2047	1945



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.9	2.9
10°-20°	439.9	8.3
20°-30°	656.5	12.4
30°-40°	782.3	14.8
40°-50°	778.1	14.7
50°-60°	666.9	12.6
60°-70°	502.2	9.5
70°-80°	290.9	5.5
80°-90°	87.4	1.7
90°-100°	93.9	1.8
100°-110°	192.7	3.6
110°-120°	203.8	3.9
120°-130°	170.0	3.2
130°-140°	118.7	2.2
140°-150°	73.9	1.4
150°-160°	45.8	0.9
160°-170°	25.8	0.5
170°-180°	8.3	0.2
0°-30°	1251.3	23.6
0°-40°	2033.6	38.4
0°-60°	3478.5	65.7
0°-90°	4359.0	82.4
90°-120°	490.4	9.3
90°-150°	853.0	16.1
90°-180°	933.0	17.6
0°-180°	5292.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1634	1634	1634	1634	1634	
5°	1636	1631	1618	1629	1627	156
15°	1594	1593	1559	1533	1516	451
25°	1506	1485	1405	1370	1362	695
35°	1361	1324	1233	1185	1165	850
45°	1142	1114	1019	918	800	883
55°	890	877	772	613	550	796
65°	626	612	514	399	378	619
75°	348	336	270	215	209	369
85°	96	84	66	63	63	102
90°	5	23	40	50	53	10
95°	53	71	81	119	129	51
105°	124	129	186	249	264	129
115°	154	131	197	272	298	150
125°	142	126	171	250	282	127
135°	116	126	138	186	214	91
145°	94	109	119	128	136	60
155°	86	91	98	106	108	40
165°	84	88	91	94	94	24
175°	83	84	86	88	90	8
180°	81	81	81	81	81	



TEST NUMBER: P520793

CATALOG NUMBER: 8WSLA-75-L950-UPL15-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1634.0	1634.0	1634.0	1634.0	1634.0
2.5°	1639.0	1635.7	1622.4	1635.7	1632.4
5°	1635.7	1630.7	1617.5	1629.1	1627.4
7.5°	1629.1	1625.7	1610.8	1624.1	1622.4
10°	1620.8	1615.8	1602.5	1612.5	1605.8
12.5°	1609.2	1605.8	1586.0	1577.7	1564.4
15°	1594.2	1592.6	1559.4	1532.9	1516.4
17.5°	1577.7	1571.0	1524.6	1493.2	1478.2
20°	1557.8	1547.8	1486.5	1450.1	1435.2
22.5°	1534.6	1519.7	1448.4	1413.6	1398.7
25°	1506.4	1484.9	1405.3	1370.5	1362.2
27.5°	1474.9	1450.1	1365.6	1330.8	1320.8
30°	1441.8	1410.3	1320.8	1287.7	1269.4
32.5°	1400.4	1370.5	1277.7	1239.6	1219.7
35°	1360.6	1324.1	1233.0	1184.9	1165.0
37.5°	1312.5	1276.1	1181.6	1133.5	1110.3
40°	1261.1	1224.7	1131.9	1075.5	1045.7
42.5°	1204.8	1171.7	1077.2	1009.2	951.2
45°	1141.8	1113.7	1019.2	918.1	800.4
47.5°	1083.8	1057.3	961.2	830.3	709.3
50°	1022.5	997.6	901.5	747.4	648.0
52.5°	954.6	936.3	836.9	676.1	596.6
55°	889.9	876.7	772.3	613.2	550.2
57.5°	822.0	808.7	707.6	553.5	503.8
60°	759.0	745.8	643.0	500.5	460.7
62.5°	696.0	677.8	580.0	449.1	416.0
65°	626.4	611.5	513.7	399.4	377.8
67.5°	556.8	543.6	452.4	353.0	338.1
70°	487.2	475.6	389.4	308.2	300.0
72.5°	419.3	404.4	333.1	263.5	260.2
75°	348.0	336.4	270.1	215.4	208.8
77.5°	280.1	270.1	212.1	164.1	159.1
80°	213.8	203.8	152.5	119.3	124.3
82.5°	157.4	144.2	102.7	92.8	97.8
85°	96.1	84.5	66.3	63.0	63.0
87.5°	33.1	31.5	29.8	34.8	36.5
90°	5.0	23.2	39.8	49.7	53.0
92.5°	28.2	41.4	54.7	64.6	67.9
95°	53.0	71.3	81.2	119.3	129.3
97.5°	72.9	94.5	106.1	140.9	150.8
100°	92.8	112.7	149.2	167.4	179.0
102.5°	109.4	124.3	175.7	212.1	218.8
105°	124.3	129.3	185.6	248.6	263.5



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CATALOG NUMBER: 8WSLA-75-L950-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	149.2	132.6	198.9	270.1	296.6
115°	154.1	130.9	197.2	271.8	298.3
117.5°	154.1	130.9	192.2	271.8	298.3
120°	150.8	132.6	185.6	268.5	296.6
122.5°	147.5	129.3	179.0	261.8	290.0
125°	142.5	125.9	170.7	250.2	281.7
127.5°	134.2	129.3	162.4	235.3	266.8
130°	127.6	130.9	152.5	220.4	251.9
132.5°	122.6	127.6	142.5	203.8	232.0
135°	116.0	125.9	137.5	185.6	213.8
137.5°	111.0	121.0	129.3	169.0	192.2
140°	106.1	117.7	121.0	147.5	167.4
142.5°	99.4	112.7	114.3	137.5	145.8
145°	94.5	109.4	119.3	127.6	135.9
147.5°	89.5	102.7	116.0	117.7	125.9
150°	87.8	96.1	111.0	112.7	116.0
152.5°	86.2	92.8	102.7	112.7	114.3
155°	86.2	91.1	97.8	106.1	107.7
157.5°	84.5	91.1	94.5	101.1	102.7
160°	84.5	89.5	92.8	97.8	99.4
162.5°	84.5	89.5	91.1	96.1	97.8
165°	84.5	87.8	91.1	94.5	94.5
167.5°	84.5	87.8	89.5	92.8	92.8
170°	84.5	86.2	89.5	91.1	91.1
172.5°	82.9	86.2	87.8	91.1	91.1
175°	82.9	84.5	86.2	87.8	89.5
177.5°	79.5	84.5	86.2	87.8	86.2
180°	81.2	81.2	81.2	81.2	81.2



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	135.9	130.9	192.2	261.8	283.4
110°	144.2	132.6	197.2	266.8	293.3



(END OF REPORT)