

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: P520794

Luminaire Tested: **8WSLA-75-L950-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: P520794
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-L950-UPL8-UNV-U
Description: 8 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 90 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

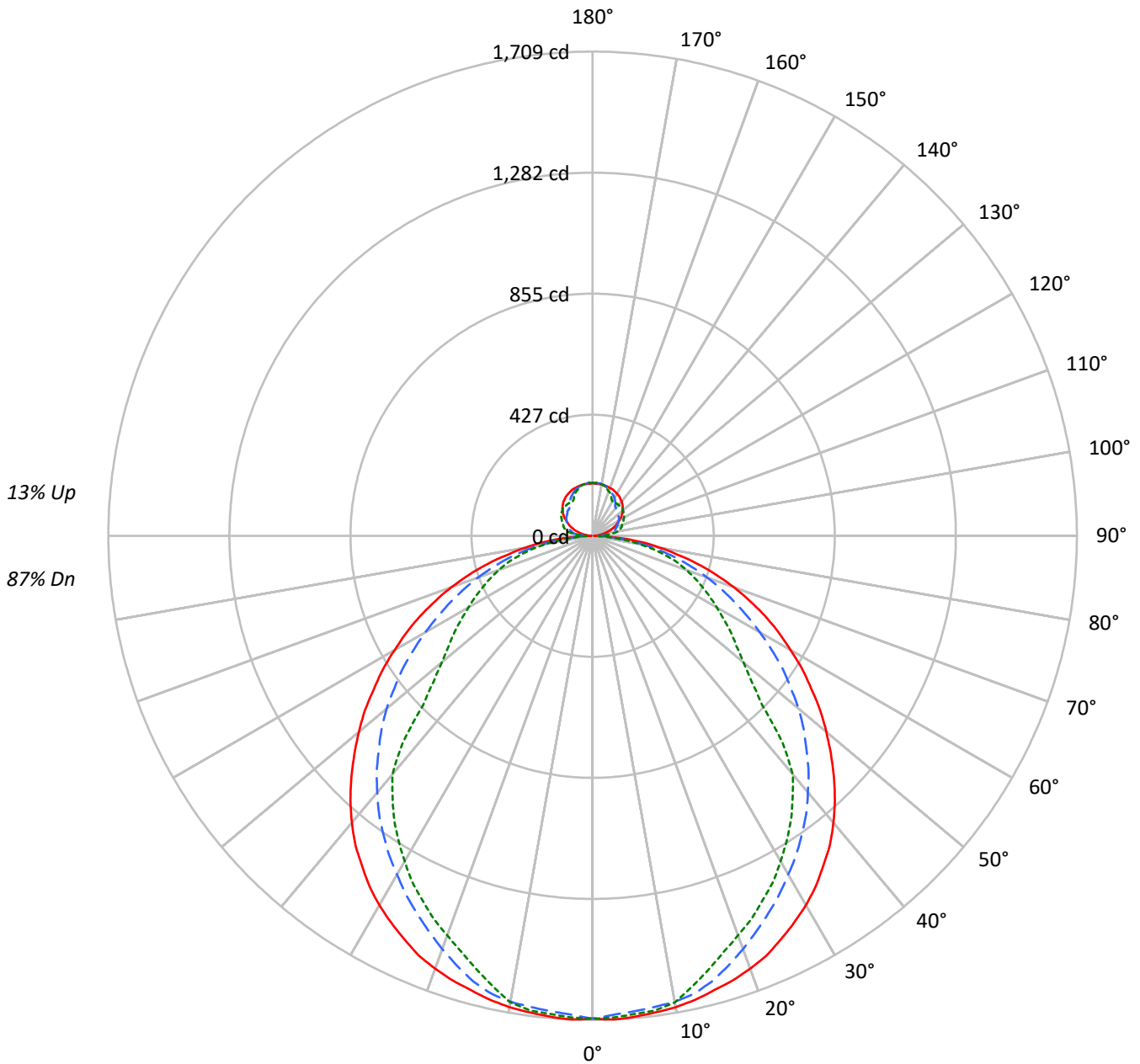
Lumens per Lamp: N/A
Luminaire Lumens: 5304.1 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 46.6
Input Voltage (V): NR
Input Current (A_{in}): 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°	4586	4586	4586
5°	4604	4551	4577
10°	4617	4563	4570
15°	4625	4536	4413
20°	4656	4445	4298
25°	4667	4361	4216
30°	4679	4290	4122
35°	4664	4229	4012
40°	4643	4152	3859
45°	4582	4059	3220
50°	4507	3973	2905
55°	4418	3842	2796
60°	4342	3669	2719
65°	4278	3514	2717
70°	4168	3376	2759
75°	3977	3213	2779
80°	3724	2889	2585
85°	3409	2044	1741



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.3	3.0
10°-20°	458.7	8.6
20°-30°	685.4	12.9
30°-40°	818.2	15.4
40°-50°	818.2	15.4
50°-60°	708.1	13.4
60°-70°	543.5	10.2
70°-80°	333.0	6.3
80°-90°	93.8	1.8
90°-100°	53.0	1.0
100°-110°	84.1	1.6
110°-120°	98.3	1.9
120°-130°	106.2	2.0
130°-140°	104.6	2.0
140°-150°	92.5	1.7
150°-160°	76.2	1.4
160°-170°	51.0	1.0
170°-180°	17.8	0.3
0°-30°	1305.5	24.6
0°-40°	2123.6	40.0
0°-60°	3650.0	68.8
0°-90°	4620.4	87.1
90°-120°	235.5	4.4
90°-150°	538.8	10.2
90°-180°	684.0	12.9
0°-180°	5304.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1704	1704	1704	1704	1704	
5°	1704	1699	1685	1697	1694	162
15°	1660	1658	1628	1599	1584	470
25°	1572	1552	1469	1430	1420	725
35°	1420	1383	1287	1241	1221	889
45°	1204	1170	1067	971	846	928
55°	942	920	819	655	596	844
65°	672	647	552	444	427	664
75°	382	363	309	267	267	404
85°	110	91	66	56	56	115
90°	5	17	27	34	37	8
95°	20	42	56	59	59	19
105°	56	59	83	98	103	59
115°	93	78	98	113	120	91
125°	125	100	113	130	135	111
135°	150	135	125	137	145	115
145°	167	159	140	137	142	104
155°	177	174	164	157	154	81
165°	182	184	179	179	179	52
175°	184	186	186	189	189	18
180°	186	186	186	186	186	



TEST NUMBER: P520794

CATALOG NUMBER: 8WSLA-75-L950-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1704.3	1704.3	1704.3	1704.3	1704.3
2.5°	1709.2	1704.3	1692.0	1704.3	1701.8
5°	1704.3	1699.4	1684.7	1696.9	1694.5
7.5°	1696.9	1692.0	1677.3	1692.0	1689.6
10°	1689.6	1684.7	1670.0	1679.8	1672.4
12.5°	1677.3	1672.4	1655.3	1643.0	1628.3
15°	1660.2	1657.7	1628.3	1598.9	1584.1
17.5°	1645.4	1638.1	1591.5	1557.2	1540.0
20°	1625.8	1613.6	1552.3	1513.0	1500.8
22.5°	1603.8	1584.1	1510.6	1473.8	1464.0
25°	1571.9	1552.3	1468.9	1429.7	1419.8
27.5°	1540.0	1515.5	1427.2	1388.0	1378.2
30°	1505.7	1471.3	1380.6	1343.8	1326.7
32.5°	1466.4	1432.1	1336.5	1294.8	1275.2
35°	1419.8	1383.1	1287.4	1240.8	1221.2
37.5°	1375.7	1336.5	1238.4	1186.9	1159.9
40°	1321.8	1282.5	1182.0	1125.6	1098.6
42.5°	1265.4	1228.6	1128.0	1059.4	993.2
45°	1204.0	1169.7	1066.7	971.1	846.0
47.5°	1140.3	1110.9	1010.3	880.4	760.2
50°	1076.5	1047.1	949.0	794.5	694.0
52.5°	1012.8	988.2	880.4	723.4	640.0
55°	941.7	919.6	819.0	654.7	595.9
57.5°	877.9	855.8	747.9	598.3	549.3
60°	806.8	787.2	681.7	541.9	505.2
62.5°	740.6	718.5	615.5	492.9	465.9
65°	671.9	647.4	551.8	443.9	426.7
67.5°	600.8	576.3	490.4	399.7	389.9
70°	529.7	510.1	429.1	355.6	350.7
72.5°	456.1	434.0	367.8	313.9	313.9
75°	382.5	362.9	309.0	267.3	267.3
77.5°	306.5	296.7	247.7	218.2	220.7
80°	240.3	228.1	186.4	166.8	166.8
82.5°	176.6	161.8	125.1	110.4	115.3
85°	110.4	90.7	66.2	56.4	56.4
87.5°	34.3	27.0	19.6	22.1	22.1
90°	4.9	17.2	27.0	34.3	36.8
92.5°	12.3	31.9	39.2	46.6	49.0
95°	19.6	41.7	56.4	58.9	58.9
97.5°	27.0	46.6	68.7	78.5	78.5
100°	36.8	49.0	73.6	88.3	90.7
102.5°	46.6	53.9	78.5	93.2	98.1
105°	56.4	58.9	83.4	98.1	103.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	83.4	73.6	93.2	110.4	115.3
115°	93.2	78.5	98.1	112.8	120.2
117.5°	100.5	85.8	103.0	117.7	122.6
120°	107.9	90.7	105.4	122.6	127.5
122.5°	117.7	95.6	110.4	125.1	132.4
125°	125.1	100.5	112.8	130.0	134.9
127.5°	132.4	110.4	115.3	132.4	137.3
130°	137.3	120.2	117.7	134.9	139.8
132.5°	144.7	127.5	120.2	137.3	142.2
135°	149.6	134.9	125.1	137.3	144.7
137.5°	154.5	142.2	125.1	137.3	142.2
140°	159.4	149.6	127.5	137.3	142.2
142.5°	161.8	154.5	130.0	137.3	142.2
145°	166.8	159.4	139.8	137.3	142.2
147.5°	169.2	164.3	147.1	137.3	142.2
150°	171.7	169.2	154.5	139.8	139.8
152.5°	174.1	171.7	159.4	149.6	144.7
155°	176.6	174.1	164.3	156.9	154.5
157.5°	179.0	179.0	169.2	164.3	161.8
160°	179.0	181.5	174.1	169.2	166.8
162.5°	181.5	183.9	176.6	174.1	171.7
165°	181.5	183.9	179.0	179.0	179.0
167.5°	183.9	186.4	183.9	181.5	181.5
170°	183.9	186.4	183.9	183.9	183.9
172.5°	183.9	186.4	186.4	186.4	186.4
175°	183.9	186.4	186.4	188.8	188.8
177.5°	183.9	186.4	186.4	186.4	186.4
180°	186.4	186.4	186.4	186.4	186.4



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	66.2	63.8	85.8	103.0	107.9
110°	73.6	68.7	90.7	105.4	110.4



(END OF REPORT)