

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: P520787

Luminaire Tested: **8WSLA-75-L935-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: P520787
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-L935-UPL15-UNV-U
Description: 8 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 90 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

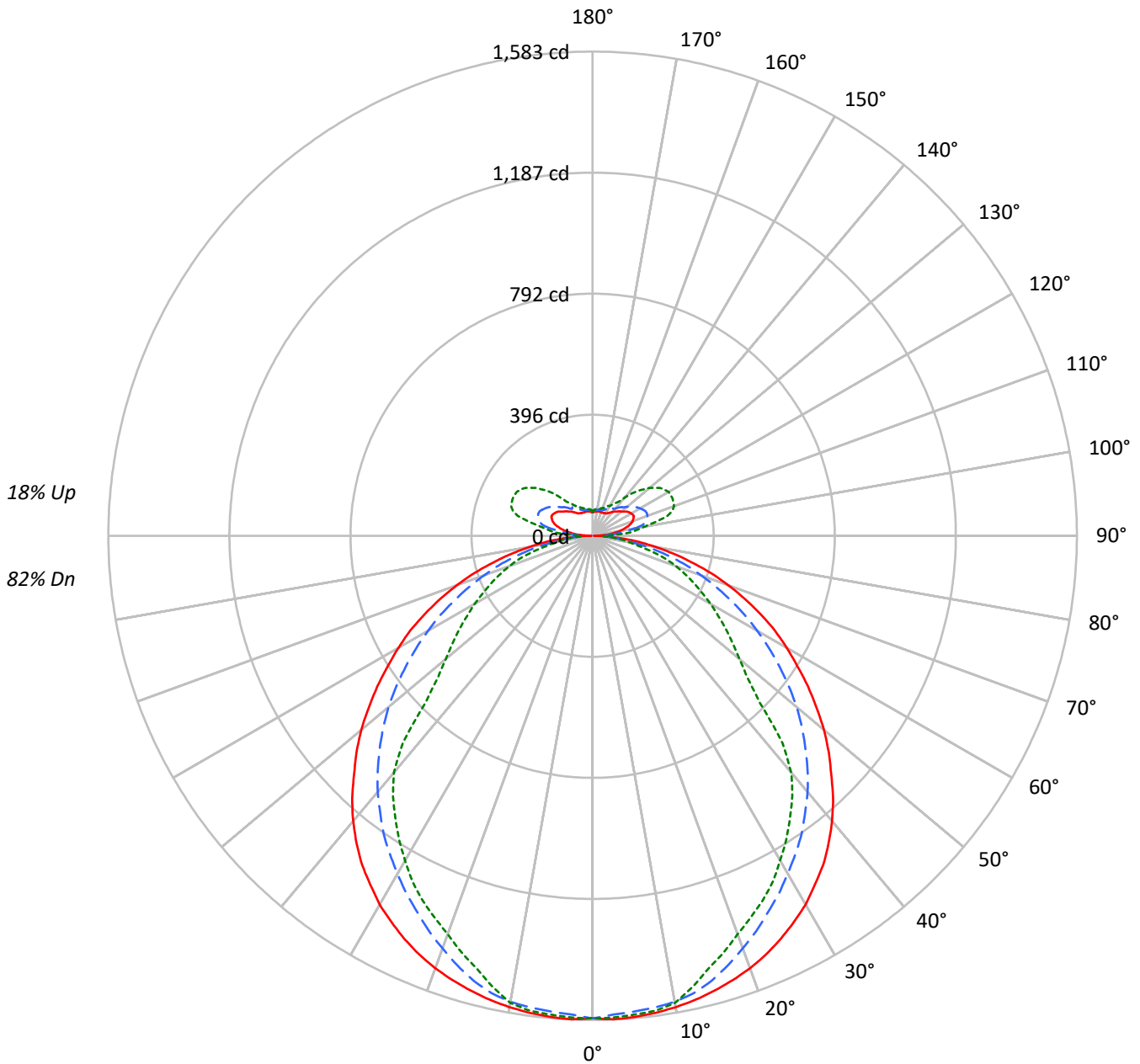
Lumens per Lamp: N/A
Luminaire Lumens: 5109.9 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 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	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°	4246	4246	4246
5°	4266	4219	4245
10°	4276	4228	4237
15°	4289	4195	4079
20°	4308	4111	3968
25°	4319	4029	3906
30°	4326	3963	3809
35°	4316	3911	3696
40°	4278	3840	3547
45°	4196	3745	2941
50°	4133	3644	2619
55°	4031	3499	2493
60°	3944	3342	2394
65°	3852	3159	2323
70°	3702	2959	2279
75°	3493	2712	2096
80°	3199	2281	1860
85°	2865	1976	1877



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.5	2.9
10°-20°	424.8	8.3
20°-30°	633.9	12.4
30°-40°	755.4	14.8
40°-50°	751.3	14.7
50°-60°	643.9	12.6
60°-70°	485.0	9.5
70°-80°	280.8	5.5
80°-90°	84.4	1.7
90°-100°	90.6	1.8
100°-110°	186.1	3.6
110°-120°	196.7	3.9
120°-130°	164.1	3.2
130°-140°	114.7	2.2
140°-150°	71.4	1.4
150°-160°	44.2	0.9
160°-170°	24.9	0.5
170°-180°	8.0	0.2
0°-30°	1208.3	23.6
0°-40°	1963.6	38.4
0°-60°	3358.9	65.7
0°-90°	4209.1	82.4
90°-120°	473.4	9.3
90°-150°	823.6	16.1
90°-180°	901.0	17.6
0°-180°	5109.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1578	1578	1578	1578	1578	
5°	1579	1575	1562	1573	1571	150
15°	1539	1538	1506	1480	1464	435
25°	1455	1434	1357	1323	1315	671
35°	1314	1279	1191	1144	1125	821
45°	1103	1075	984	886	773	852
55°	859	846	746	592	531	768
65°	605	590	496	386	365	598
75°	336	325	261	208	202	356
85°	93	82	64	61	61	99
90°	5	22	38	48	51	9
95°	51	69	78	115	125	49
105°	120	125	179	240	254	124
115°	149	126	190	262	288	145
125°	138	122	165	242	272	122
135°	112	122	133	179	206	87
145°	91	106	115	123	131	58
155°	83	88	94	102	104	38
165°	82	85	88	91	91	23
175°	80	82	83	85	86	8
180°	78	78	78	78	78	



TEST NUMBER: P520787

CATALOG NUMBER: 8WSLA-75-L935-UPL15-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1577.8	1577.8	1577.8	1577.8	1577.8
2.5°	1582.6	1579.4	1566.6	1579.4	1576.2
5°	1579.4	1574.6	1561.8	1573.0	1571.4
7.5°	1573.0	1569.8	1555.4	1568.2	1566.6
10°	1565.0	1560.2	1547.4	1557.0	1550.6
12.5°	1553.8	1550.6	1531.4	1523.4	1510.6
15°	1539.4	1537.8	1505.8	1480.2	1464.2
17.5°	1523.4	1517.0	1472.2	1441.8	1427.4
20°	1504.2	1494.6	1435.4	1400.2	1385.8
22.5°	1481.8	1467.4	1398.6	1365.0	1350.6
25°	1454.6	1433.8	1357.0	1323.4	1315.4
27.5°	1424.2	1400.2	1318.6	1285.0	1275.4
30°	1392.2	1361.8	1275.4	1243.4	1225.8
32.5°	1352.2	1323.4	1233.8	1197.0	1177.8
35°	1313.8	1278.6	1190.6	1144.2	1125.0
37.5°	1267.4	1232.2	1141.0	1094.6	1072.2
40°	1217.8	1182.6	1093.0	1038.5	1009.7
42.5°	1163.4	1131.4	1040.1	974.5	918.5
45°	1102.6	1075.4	984.1	886.5	772.9
47.5°	1046.6	1020.9	928.1	801.7	684.9
50°	987.3	963.3	870.5	721.7	625.7
52.5°	921.7	904.1	808.1	652.9	576.1
55°	859.3	846.5	745.7	592.1	531.3
57.5°	793.7	780.9	683.3	534.5	486.5
60°	732.9	720.1	620.9	483.3	444.9
62.5°	672.1	654.5	560.1	433.7	401.7
65°	604.9	590.5	496.1	385.7	364.9
67.5°	537.7	524.9	436.9	340.8	326.4
70°	470.5	459.3	376.1	297.6	289.6
72.5°	404.9	390.5	321.6	254.4	251.2
75°	336.0	324.8	260.8	208.0	201.6
77.5°	270.4	260.8	204.8	158.4	153.6
80°	206.4	196.8	147.2	115.2	120.0
82.5°	152.0	139.2	99.2	89.6	94.4
85°	92.8	81.6	64.0	60.8	60.8
87.5°	32.0	30.4	28.8	33.6	35.2
90°	4.8	22.4	38.4	48.0	51.2
92.5°	27.2	40.0	52.8	62.4	65.6
95°	51.2	68.8	78.4	115.2	124.8
97.5°	70.4	91.2	102.4	136.0	145.6
100°	89.6	108.8	144.0	161.6	172.8
102.5°	105.6	120.0	169.6	204.8	211.2
105°	120.0	124.8	179.2	240.0	254.4



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CATALOG NUMBER: 8WSLA-75-L935-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	144.0	128.0	192.0	260.8	286.4
115°	148.8	126.4	190.4	262.4	288.0
117.5°	148.8	126.4	185.6	262.4	288.0
120°	145.6	128.0	179.2	259.2	286.4
122.5°	142.4	124.8	172.8	252.8	280.0
125°	137.6	121.6	164.8	241.6	272.0
127.5°	129.6	124.8	156.8	227.2	257.6
130°	123.2	126.4	147.2	212.8	243.2
132.5°	118.4	123.2	137.6	196.8	224.0
135°	112.0	121.6	132.8	179.2	206.4
137.5°	107.2	116.8	124.8	163.2	185.6
140°	102.4	113.6	116.8	142.4	161.6
142.5°	96.0	108.8	110.4	132.8	140.8
145°	91.2	105.6	115.2	123.2	131.2
147.5°	86.4	99.2	112.0	113.6	121.6
150°	84.8	92.8	107.2	108.8	112.0
152.5°	83.2	89.6	99.2	108.8	110.4
155°	83.2	88.0	94.4	102.4	104.0
157.5°	81.6	88.0	91.2	97.6	99.2
160°	81.6	86.4	89.6	94.4	96.0
162.5°	81.6	86.4	88.0	92.8	94.4
165°	81.6	84.8	88.0	91.2	91.2
167.5°	81.6	84.8	86.4	89.6	89.6
170°	81.6	83.2	86.4	88.0	88.0
172.5°	80.0	83.2	84.8	88.0	88.0
175°	80.0	81.6	83.2	84.8	86.4
177.5°	76.8	81.6	83.2	84.8	83.2
180°	78.4	78.4	78.4	78.4	78.4



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	131.2	126.4	185.6	252.8	273.6
110°	139.2	128.0	190.4	257.6	283.2



(END OF REPORT)