

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: P520788

Luminaire Tested: **8WSLA-75-L935-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: P520788
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-L935-UPL8-UNV-U
Description: 8 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 90 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

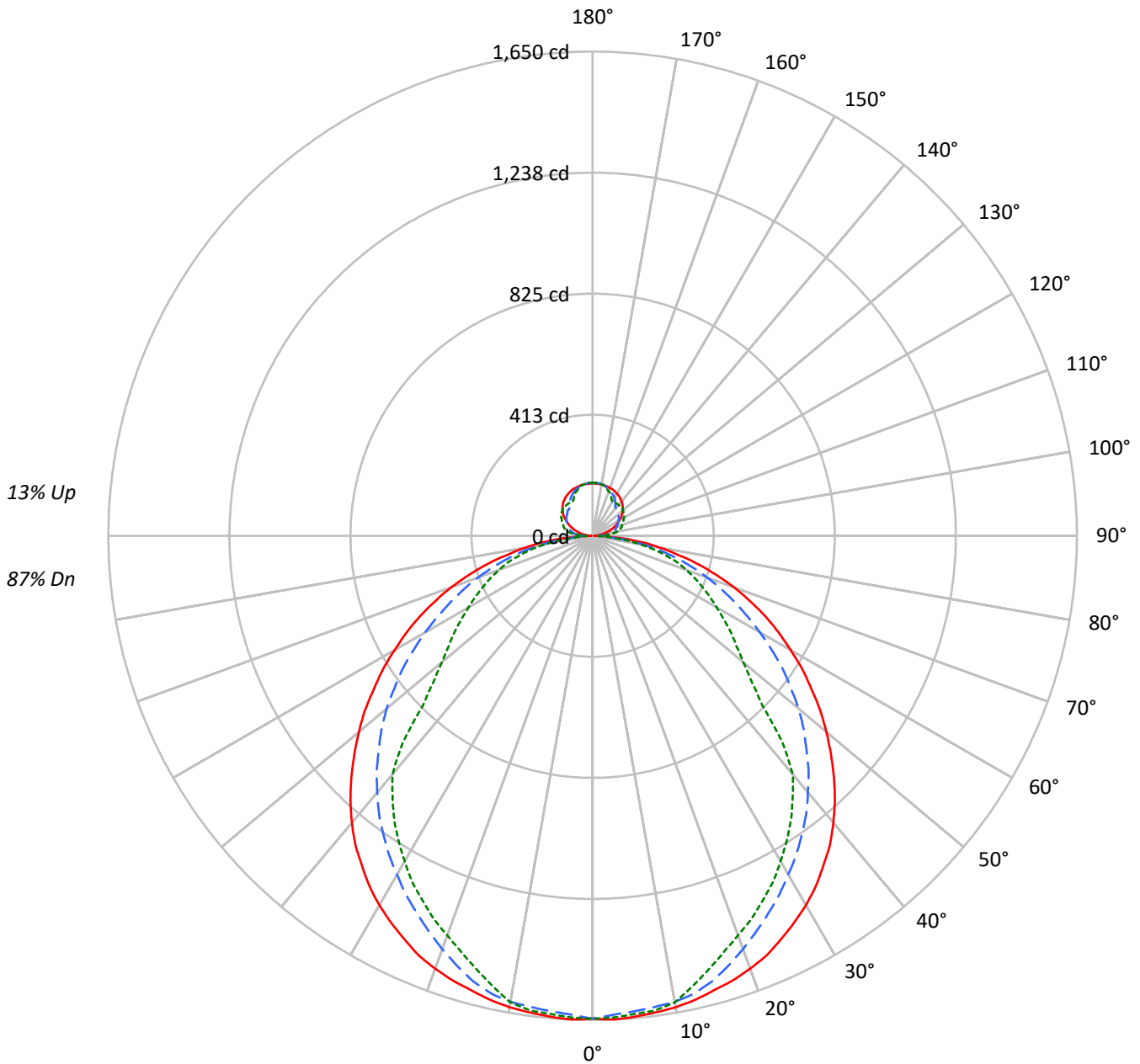
Lumens per Lamp: N/A
Luminaire Lumens: 5121.0 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

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

TEST NUMBER: P520788

CATALOG NUMBER: 8WSLA-75-L935-UPL8-UNV-U

Luminous Intensity Polar Plot





TEST NUMBER: P520788

CATALOG NUMBER: 8WSLA-75-L935-UPL8-UNV-U

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°	4428	4428	4428
5°	4445	4394	4419
10°	4458	4406	4412
15°	4466	4380	4261
20°	4495	4292	4149
25°	4506	4211	4070
30°	4517	4142	3980
35°	4504	4083	3873
40°	4483	4009	3726
45°	4424	3919	3108
50°	4351	3836	2805
55°	4266	3710	2699
60°	4192	3542	2625
65°	4131	3392	2623
70°	4024	3260	2664
75°	3840	3101	2684
80°	3595	2788	2495
85°	3288	1973	1683



TEST NUMBER: P520788

CATALOG NUMBER: 8WSLA-75-L935-UPL8-UNV-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.8	3.0
10°-20°	442.9	8.6
20°-30°	661.8	12.9
30°-40°	789.9	15.4
40°-50°	790.0	15.4
50°-60°	683.7	13.4
60°-70°	524.8	10.2
70°-80°	321.6	6.3
80°-90°	90.5	1.8
90°-100°	51.2	1.0
100°-110°	81.2	1.6
110°-120°	94.9	1.9
120°-130°	102.5	2.0
130°-140°	101.0	2.0
140°-150°	89.4	1.7
150°-160°	73.5	1.4
160°-170°	49.2	1.0
170°-180°	17.1	0.3
0°-30°	1260.4	24.6
0°-40°	2050.3	40.0
0°-60°	3524.1	68.8
0°-90°	4460.9	87.1
90°-120°	227.3	4.4
90°-150°	520.2	10.2
90°-180°	660.0	12.9
0°-180°	5121.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1646	1646	1646	1646	1646	
5°	1646	1641	1627	1638	1636	157
15°	1603	1600	1572	1544	1530	453
25°	1518	1499	1418	1380	1371	700
35°	1371	1335	1243	1198	1179	858
45°	1162	1129	1030	938	817	896
55°	909	888	791	632	575	815
65°	649	625	533	428	412	641
75°	369	350	298	258	258	390
85°	106	88	64	54	54	111
90°	5	17	26	33	36	7
95°	19	40	54	57	57	19
105°	54	57	80	95	99	57
115°	90	76	95	109	116	88
125°	121	97	109	126	130	108
135°	144	130	121	133	140	111
145°	161	154	135	133	137	100
155°	170	168	159	152	149	79
165°	175	178	173	173	173	50
175°	178	180	180	182	182	17
180°	180	180	180	180	180	



TEST NUMBER: P520788

CATALOG NUMBER: 8WSLA-75-L935-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1645.5	1645.5	1645.5	1645.5	1645.5
2.5°	1650.2	1645.5	1633.7	1645.5	1643.1
5°	1645.5	1640.8	1626.6	1638.4	1636.0
7.5°	1638.4	1633.7	1619.5	1633.7	1631.3
10°	1631.3	1626.6	1612.4	1621.8	1614.7
12.5°	1619.5	1614.7	1598.1	1586.3	1572.1
15°	1602.9	1600.5	1572.1	1543.7	1529.5
17.5°	1588.7	1581.6	1536.6	1503.4	1486.9
20°	1569.7	1557.9	1498.7	1460.8	1449.0
22.5°	1548.4	1529.5	1458.5	1422.9	1413.5
25°	1517.6	1498.7	1418.2	1380.3	1370.9
27.5°	1486.9	1463.2	1378.0	1340.1	1330.6
30°	1453.7	1420.6	1333.0	1297.5	1280.9
32.5°	1415.8	1382.7	1290.4	1250.1	1231.2
35°	1370.9	1335.3	1243.0	1198.0	1179.1
37.5°	1328.2	1290.4	1195.6	1145.9	1119.9
40°	1276.1	1238.3	1141.2	1086.7	1060.7
42.5°	1221.7	1186.2	1089.1	1022.8	958.9
45°	1162.5	1129.4	1029.9	937.6	816.8
47.5°	1100.9	1072.5	975.5	850.0	734.0
50°	1039.4	1011.0	916.3	767.1	670.0
52.5°	977.8	954.2	850.0	698.4	617.9
55°	909.2	887.9	790.8	632.2	575.3
57.5°	847.6	826.3	722.1	577.7	530.3
60°	778.9	760.0	658.2	523.2	487.7
62.5°	715.0	693.7	594.3	475.9	449.8
65°	648.7	625.1	532.7	428.5	412.0
67.5°	580.1	556.4	473.5	385.9	376.5
70°	511.4	492.5	414.3	343.3	338.6
72.5°	440.4	419.1	355.1	303.1	303.1
75°	369.3	350.4	298.3	258.1	258.1
77.5°	296.0	286.5	239.1	210.7	213.1
80°	232.0	220.2	179.9	161.0	161.0
82.5°	170.5	156.3	120.7	106.5	111.3
85°	106.5	87.6	63.9	54.5	54.5
87.5°	33.1	26.0	18.9	21.3	21.3
90°	4.7	16.6	26.0	33.1	35.5
92.5°	11.8	30.8	37.9	45.0	47.4
95°	18.9	40.2	54.5	56.8	56.8
97.5°	26.0	45.0	66.3	75.8	75.8
100°	35.5	47.4	71.0	85.2	87.6
102.5°	45.0	52.1	75.8	90.0	94.7
105°	54.5	56.8	80.5	94.7	99.4



TEST NUMBER: P520788

CATALOG NUMBER: 8WSLA-75-L935-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	80.5	71.0	90.0	106.5	111.3
115°	90.0	75.8	94.7	108.9	116.0
117.5°	97.1	82.9	99.4	113.6	118.4
120°	104.2	87.6	101.8	118.4	123.1
122.5°	113.6	92.3	106.5	120.7	127.9
125°	120.7	97.1	108.9	125.5	130.2
127.5°	127.9	106.5	111.3	127.9	132.6
130°	132.6	116.0	113.6	130.2	135.0
132.5°	139.7	123.1	116.0	132.6	137.3
135°	144.4	130.2	120.7	132.6	139.7
137.5°	149.2	137.3	120.7	132.6	137.3
140°	153.9	144.4	123.1	132.6	137.3
142.5°	156.3	149.2	125.5	132.6	137.3
145°	161.0	153.9	135.0	132.6	137.3
147.5°	163.4	158.6	142.1	132.6	137.3
150°	165.7	163.4	149.2	135.0	135.0
152.5°	168.1	165.7	153.9	144.4	139.7
155°	170.5	168.1	158.6	151.5	149.2
157.5°	172.8	172.8	163.4	158.6	156.3
160°	172.8	175.2	168.1	163.4	161.0
162.5°	175.2	177.6	170.5	168.1	165.7
165°	175.2	177.6	172.8	172.8	172.8
167.5°	177.6	179.9	177.6	175.2	175.2
170°	177.6	179.9	177.6	177.6	177.6
172.5°	177.6	179.9	179.9	179.9	179.9
175°	177.6	179.9	179.9	182.3	182.3
177.5°	177.6	179.9	179.9	179.9	179.9
180°	179.9	179.9	179.9	179.9	179.9



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	63.9	61.6	82.9	99.4	104.2
110°	71.0	66.3	87.6	101.8	106.5



(END OF REPORT)