

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: P520493

Luminaire Tested: **4WSLA-125-L850-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: P520493
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: 4WSLA-125-L850-UPL15-UNV-U
Description: 4 FOOT, 1250 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

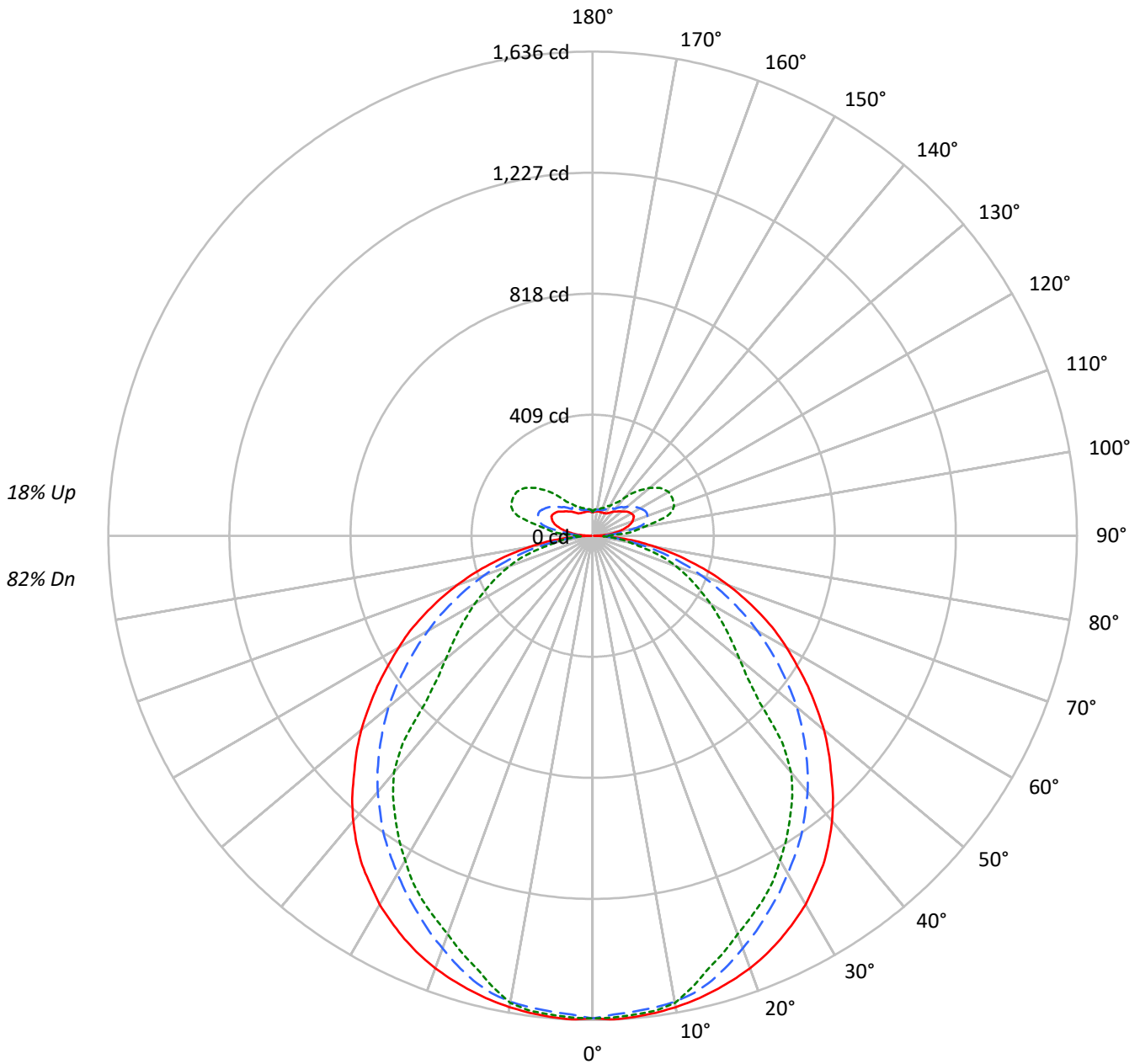
Lumens per Lamp: N/A
Luminaire Lumens: 5281.0 lumens
Efficiency: N/A
Efficacy: 136.1 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 38.8
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°	8776	8776	8776
5°	8819	8720	8774
10°	8839	8740	8758
15°	8864	8671	8431
20°	8904	8496	8203
25°	8927	8328	8073
30°	8941	8191	7873
35°	8921	8084	7638
40°	8842	7935	7331
45°	8673	7741	6080
50°	8544	7533	5414
55°	8333	7232	5152
60°	8153	6907	4949
65°	7961	6529	4802
70°	7651	6115	4710
75°	7222	5606	4334
80°	6611	4714	3843
85°	5922	4088	3878



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.5	2.9
10°-20°	439.0	8.3
20°-30°	655.2	12.4
30°-40°	780.6	14.8
40°-50°	776.5	14.7
50°-60°	665.5	12.6
60°-70°	501.2	9.5
70°-80°	290.3	5.5
80°-90°	87.2	1.7
90°-100°	93.7	1.8
100°-110°	192.3	3.6
110°-120°	203.4	3.9
120°-130°	169.6	3.2
130°-140°	118.5	2.2
140°-150°	73.8	1.4
150°-160°	45.7	0.9
160°-170°	25.8	0.5
170°-180°	8.3	0.2
0°-30°	1248.7	23.6
0°-40°	2029.3	38.4
0°-60°	3471.3	65.7
0°-90°	4350.0	82.4
90°-120°	489.3	9.3
90°-150°	851.2	16.1
90°-180°	931.0	17.6
0°-180°	5281.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1631	1631	1631	1631	1631	
5°	1632	1627	1614	1626	1624	155
15°	1591	1589	1556	1530	1513	450
25°	1503	1482	1402	1368	1359	693
35°	1358	1321	1230	1182	1163	848
45°	1140	1111	1017	916	799	881
55°	888	875	771	612	549	794
65°	625	610	513	399	377	618
75°	347	336	270	215	208	368
85°	96	84	66	63	63	102
90°	5	23	40	50	53	10
95°	53	71	81	119	129	51
105°	124	129	185	248	263	129
115°	154	131	197	271	298	150
125°	142	126	170	250	281	126
135°	116	126	137	185	213	90
145°	94	109	119	127	136	60
155°	86	91	98	106	108	40
165°	84	88	91	94	94	24
175°	83	84	86	88	89	8
180°	81	81	81	81	81	



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CATALOG NUMBER: 4WSLA-125-L850-UPL15-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1630.6	1630.6	1630.6	1630.6	1630.6
2.5°	1635.6	1632.3	1619.0	1632.3	1629.0
5°	1632.3	1627.3	1614.1	1625.7	1624.0
7.5°	1625.7	1622.4	1607.5	1620.7	1619.0
10°	1617.4	1612.4	1599.2	1609.1	1602.5
12.5°	1605.8	1602.5	1582.7	1574.4	1561.2
15°	1590.9	1589.3	1556.2	1529.7	1513.2
17.5°	1574.4	1567.8	1521.5	1490.1	1475.2
20°	1554.6	1544.6	1483.4	1447.1	1432.2
22.5°	1531.4	1516.5	1445.4	1410.7	1395.8
25°	1503.3	1481.8	1402.4	1367.7	1359.4
27.5°	1471.9	1447.1	1362.7	1328.0	1318.1
30°	1438.8	1407.4	1318.1	1285.0	1266.8
32.5°	1397.4	1367.7	1275.1	1237.0	1217.2
35°	1357.8	1321.4	1230.4	1182.5	1162.6
37.5°	1309.8	1273.4	1179.1	1131.2	1108.0
40°	1258.5	1222.1	1129.5	1073.3	1043.5
42.5°	1202.3	1169.2	1075.0	1007.2	949.3
45°	1139.5	1111.3	1017.1	916.2	798.8
47.5°	1081.6	1055.1	959.2	828.5	707.8
50°	1020.4	995.6	899.7	745.9	646.6
52.5°	952.6	934.4	835.2	674.7	595.4
55°	888.1	874.8	770.7	611.9	549.1
57.5°	820.3	807.0	706.2	552.4	502.7
60°	757.4	744.2	641.7	499.4	459.8
62.5°	694.6	676.4	578.8	448.2	415.1
65°	625.1	610.2	512.7	398.6	377.1
67.5°	555.7	542.4	451.5	352.3	337.4
70°	486.2	474.6	388.6	307.6	299.3
72.5°	418.4	403.5	332.4	263.0	259.6
75°	347.3	335.7	269.6	215.0	208.4
77.5°	279.5	269.6	211.7	163.7	158.8
80°	213.3	203.4	152.1	119.1	124.0
82.5°	157.1	143.9	102.5	92.6	97.6
85°	95.9	84.3	66.2	62.8	62.8
87.5°	33.1	31.4	29.8	34.7	36.4
90°	5.0	23.2	39.7	49.6	52.9
92.5°	28.1	41.3	54.6	64.5	67.8
95°	52.9	71.1	81.0	119.1	129.0
97.5°	72.8	94.3	105.8	140.6	150.5
100°	92.6	112.5	148.8	167.0	178.6
102.5°	109.1	124.0	175.3	211.7	218.3
105°	124.0	129.0	185.2	248.1	263.0



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CATALOG NUMBER: 4WSLA-125-L850-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	148.8	132.3	198.5	269.6	296.0
115°	153.8	130.6	196.8	271.2	297.7
117.5°	153.8	130.6	191.8	271.2	297.7
120°	150.5	132.3	185.2	267.9	296.0
122.5°	147.2	129.0	178.6	261.3	289.4
125°	142.2	125.7	170.3	249.7	281.1
127.5°	134.0	129.0	162.1	234.8	266.3
130°	127.3	130.6	152.1	220.0	251.4
132.5°	122.4	127.3	142.2	203.4	231.5
135°	115.8	125.7	137.3	185.2	213.3
137.5°	110.8	120.7	129.0	168.7	191.8
140°	105.8	117.4	120.7	147.2	167.0
142.5°	99.2	112.5	114.1	137.3	145.5
145°	94.3	109.1	119.1	127.3	135.6
147.5°	89.3	102.5	115.8	117.4	125.7
150°	87.7	95.9	110.8	112.5	115.8
152.5°	86.0	92.6	102.5	112.5	114.1
155°	86.0	91.0	97.6	105.8	107.5
157.5°	84.3	91.0	94.3	100.9	102.5
160°	84.3	89.3	92.6	97.6	99.2
162.5°	84.3	89.3	91.0	95.9	97.6
165°	84.3	87.7	91.0	94.3	94.3
167.5°	84.3	87.7	89.3	92.6	92.6
170°	84.3	86.0	89.3	91.0	91.0
172.5°	82.7	86.0	87.7	91.0	91.0
175°	82.7	84.3	86.0	87.7	89.3
177.5°	79.4	84.3	86.0	87.7	86.0
180°	81.0	81.0	81.0	81.0	81.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	135.6	130.6	191.8	261.3	282.8
110°	143.9	132.3	196.8	266.3	292.7



(END OF REPORT)