

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: P520506

Luminaire Tested: **4WSLA-125-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: P520506
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: 4WSLA-125-L950-UPL8-UNV-U
Description: 4 FOOT, 1250 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

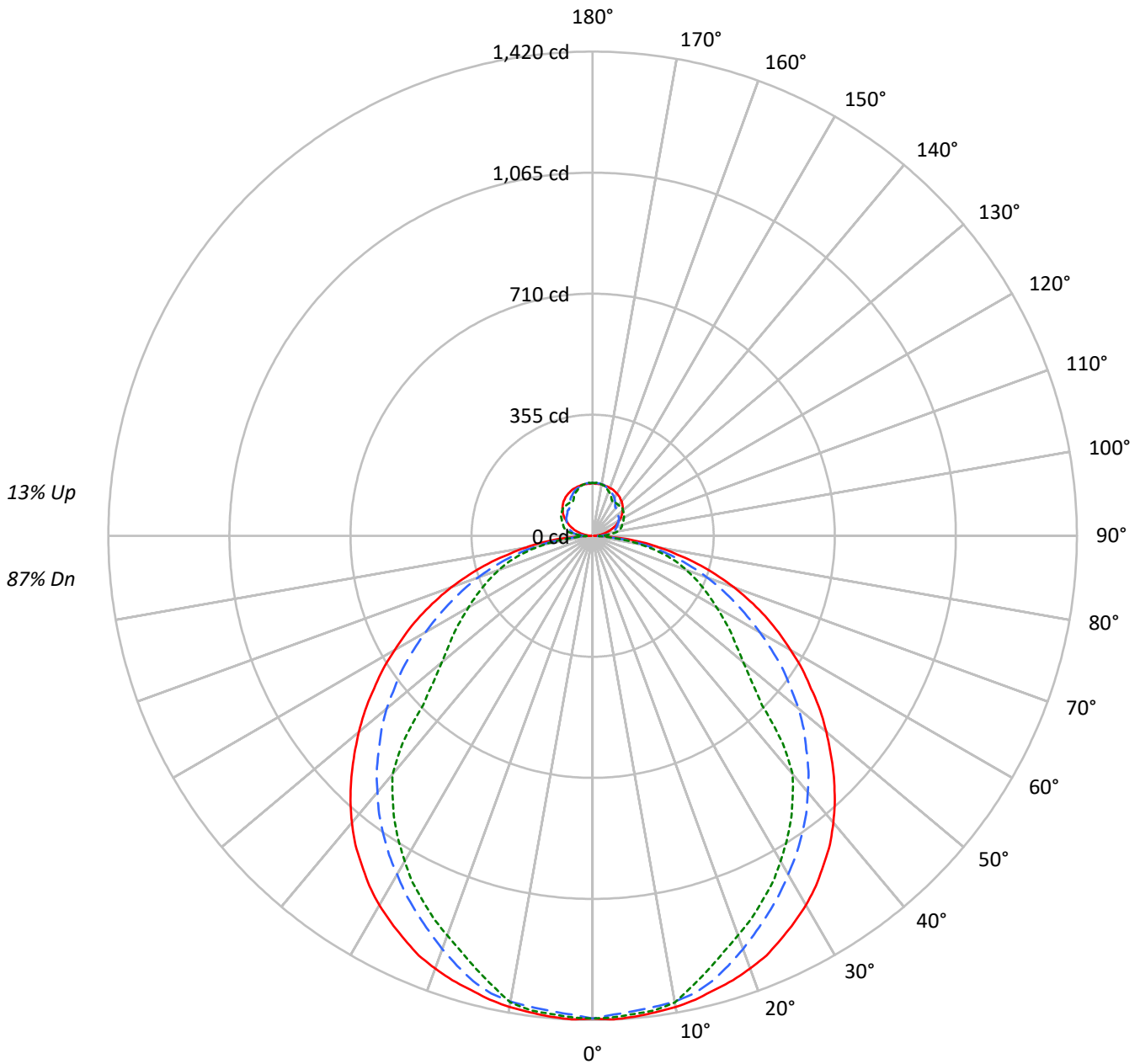
Lumens per Lamp: N/A
Luminaire Lumens: 4406.0 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 38.8
Input Voltage (V): NR
Input Current (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°	7620	7620	7620
5°	7649	7561	7605
10°	7670	7581	7593
15°	7684	7536	7332
20°	7735	7385	7140
25°	7754	7246	7004
30°	7773	7127	6848
35°	7750	7027	6665
40°	7714	6898	6412
45°	7613	6744	5349
50°	7488	6600	4827
55°	7340	6384	4645
60°	7214	6096	4517
65°	7109	5836	4513
70°	6924	5610	4584
75°	6608	5338	4616
80°	6186	4798	4293
85°	5663	3396	2896



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.0	3.0
10°-20°	381.0	8.6
20°-30°	569.4	12.9
30°-40°	679.6	15.4
40°-50°	679.7	15.4
50°-60°	588.2	13.4
60°-70°	451.5	10.2
70°-80°	276.7	6.3
80°-90°	77.9	1.8
90°-100°	44.0	1.0
100°-110°	69.9	1.6
110°-120°	81.7	1.9
120°-130°	88.2	2.0
130°-140°	86.9	2.0
140°-150°	76.9	1.7
150°-160°	63.3	1.4
160°-170°	42.3	1.0
170°-180°	14.7	0.3
0°-30°	1084.4	24.6
0°-40°	1764.1	40.0
0°-60°	3032.0	68.8
0°-90°	3838.1	87.1
90°-120°	195.6	4.4
90°-150°	447.6	10.2
90°-180°	568.0	12.9
0°-180°	4406.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1416	1416	1416	1416	1416	
5°	1416	1412	1400	1410	1408	135
15°	1379	1377	1353	1328	1316	390
25°	1306	1290	1220	1188	1180	602
35°	1180	1149	1070	1031	1014	739
45°	1000	972	886	807	703	771
55°	782	764	680	544	495	701
65°	558	538	458	369	354	551
75°	318	302	257	222	222	335
85°	92	75	55	47	47	96
90°	4	14	22	28	31	6
95°	16	35	47	49	49	16
105°	47	49	69	82	86	49
115°	77	65	82	94	100	76
125°	104	84	94	108	112	93
135°	124	112	104	114	120	96
145°	138	132	116	114	118	86
155°	147	145	136	130	128	68
165°	151	153	149	149	149	43
175°	153	155	155	157	157	15
180°	155	155	155	155	155	



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CATALOG NUMBER: 4WSLA-125-L950-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1415.8	1415.8	1415.8	1415.8	1415.8
2.5°	1419.8	1415.8	1405.6	1415.8	1413.7
5°	1415.8	1411.7	1399.5	1409.6	1407.6
7.5°	1409.6	1405.6	1393.3	1405.6	1403.5
10°	1403.5	1399.5	1387.2	1395.4	1389.3
12.5°	1393.3	1389.3	1375.0	1364.8	1352.6
15°	1379.1	1377.0	1352.6	1328.2	1315.9
17.5°	1366.9	1360.8	1322.0	1293.5	1279.3
20°	1350.6	1340.4	1289.5	1256.9	1246.7
22.5°	1332.2	1315.9	1254.8	1224.3	1216.1
25°	1305.8	1289.5	1220.2	1187.6	1179.5
27.5°	1279.3	1258.9	1185.6	1153.0	1144.8
30°	1250.8	1222.2	1146.9	1116.3	1102.0
32.5°	1218.2	1189.6	1110.2	1075.6	1059.3
35°	1179.5	1148.9	1069.5	1030.7	1014.5
37.5°	1142.8	1110.2	1028.7	985.9	963.5
40°	1098.0	1065.4	981.9	935.0	912.6
42.5°	1051.1	1020.6	937.0	880.0	825.0
45°	1000.2	971.7	886.1	806.7	702.8
47.5°	947.2	922.8	839.3	731.3	631.5
50°	894.3	869.8	788.3	660.0	576.5
52.5°	841.3	820.9	731.3	600.9	531.7
55°	782.2	763.9	680.4	543.9	495.0
57.5°	729.3	710.9	621.3	497.0	456.3
60°	670.2	653.9	566.3	450.2	419.6
62.5°	615.2	596.9	511.3	409.4	387.0
65°	558.2	537.8	458.3	368.7	354.4
67.5°	499.1	478.7	407.4	332.0	323.9
70°	440.0	423.7	356.5	295.4	291.3
72.5°	378.9	360.6	305.6	260.7	260.7
75°	317.8	301.5	256.7	222.0	222.0
77.5°	254.6	246.5	205.7	181.3	183.3
80°	199.6	189.4	154.8	138.5	138.5
82.5°	146.7	134.4	103.9	91.7	95.7
85°	91.7	75.4	55.0	46.9	46.9
87.5°	28.5	22.4	16.3	18.3	18.3
90°	4.1	14.3	22.4	28.5	30.6
92.5°	10.2	26.5	32.6	38.7	40.7
95°	16.3	34.6	46.9	48.9	48.9
97.5°	22.4	38.7	57.0	65.2	65.2
100°	30.6	40.7	61.1	73.3	75.4
102.5°	38.7	44.8	65.2	77.4	81.5
105°	46.9	48.9	69.3	81.5	85.6



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CATALOG NUMBER: 4WSLA-125-L950-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	69.3	61.1	77.4	91.7	95.7
115°	77.4	65.2	81.5	93.7	99.8
117.5°	83.5	71.3	85.6	97.8	101.9
120°	89.6	75.4	87.6	101.9	105.9
122.5°	97.8	79.4	91.7	103.9	110.0
125°	103.9	83.5	93.7	108.0	112.0
127.5°	110.0	91.7	95.7	110.0	114.1
130°	114.1	99.8	97.8	112.0	116.1
132.5°	120.2	105.9	99.8	114.1	118.1
135°	124.3	112.0	103.9	114.1	120.2
137.5°	128.3	118.1	103.9	114.1	118.1
140°	132.4	124.3	105.9	114.1	118.1
142.5°	134.4	128.3	108.0	114.1	118.1
145°	138.5	132.4	116.1	114.1	118.1
147.5°	140.6	136.5	122.2	114.1	118.1
150°	142.6	140.6	128.3	116.1	116.1
152.5°	144.6	142.6	132.4	124.3	120.2
155°	146.7	144.6	136.5	130.4	128.3
157.5°	148.7	148.7	140.6	136.5	134.4
160°	148.7	150.7	144.6	140.6	138.5
162.5°	150.7	152.8	146.7	144.6	142.6
165°	150.7	152.8	148.7	148.7	148.7
167.5°	152.8	154.8	152.8	150.7	150.7
170°	152.8	154.8	152.8	152.8	152.8
172.5°	152.8	154.8	154.8	154.8	154.8
175°	152.8	154.8	154.8	156.9	156.9
177.5°	152.8	154.8	154.8	154.8	154.8
180°	154.8	154.8	154.8	154.8	154.8



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	55.0	53.0	71.3	85.6	89.6
110°	61.1	57.0	75.4	87.6	91.7



(END OF REPORT)