

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: P520505

Luminaire Tested: **4WSLA-125-L950-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: P520505
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-L950-UPL15-UNV-U
Description: 4 FOOT, 1250 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 90 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

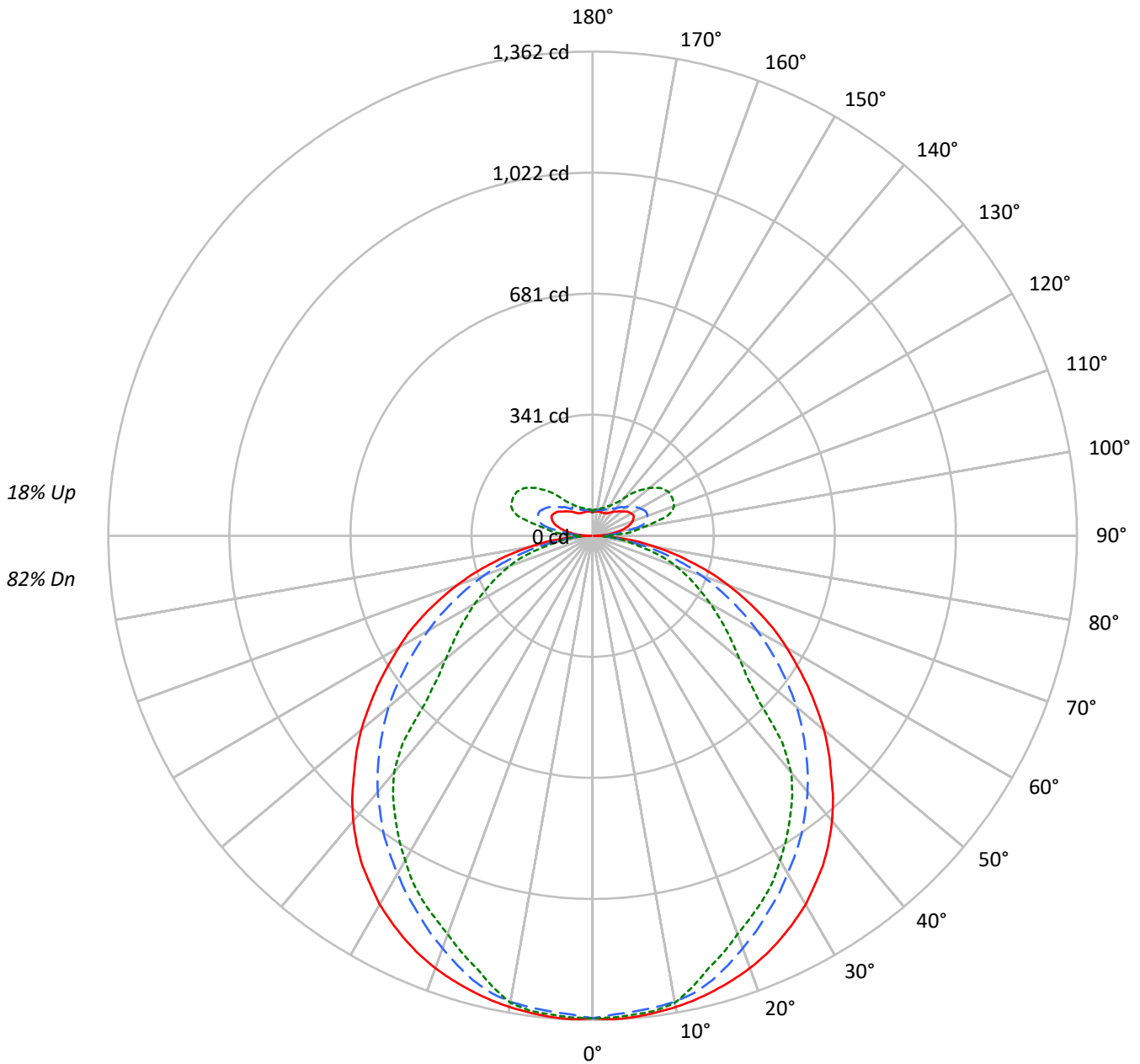
Lumens per Lamp: N/A
Luminaire Lumens: 4396.0 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

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°	7305	7305	7305
5°	7340	7259	7304
10°	7358	7275	7290
15°	7379	7218	7018
20°	7411	7072	6828
25°	7431	6932	6720
30°	7443	6819	6553
35°	7426	6729	6359
40°	7360	6606	6103
45°	7219	6444	5061
50°	7112	6270	4507
55°	6937	6019	4288
60°	6787	5749	4119
65°	6627	5435	3997
70°	6368	5091	3921
75°	6012	4666	3608
80°	5504	3927	3199
85°	4928	3402	3230



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.6	2.9
10°-20°	365.4	8.3
20°-30°	545.4	12.4
30°-40°	649.8	14.8
40°-50°	646.3	14.7
50°-60°	553.9	12.6
60°-70°	417.2	9.5
70°-80°	241.6	5.5
80°-90°	72.6	1.7
90°-100°	78.0	1.8
100°-110°	160.1	3.6
110°-120°	169.3	3.9
120°-130°	141.2	3.2
130°-140°	98.7	2.2
140°-150°	61.4	1.4
150°-160°	38.1	0.9
160°-170°	21.4	0.5
170°-180°	6.9	0.2
0°-30°	1039.4	23.6
0°-40°	1689.2	38.4
0°-60°	2889.5	65.7
0°-90°	3621.0	82.4
90°-120°	407.3	9.3
90°-150°	708.6	16.1
90°-180°	775.0	17.6
0°-180°	4396.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1357	1357	1357	1357	1357	
5°	1359	1355	1344	1353	1352	129
15°	1324	1323	1295	1273	1260	374
25°	1251	1234	1167	1138	1132	577
35°	1130	1100	1024	984	968	706
45°	948	925	847	763	665	733
55°	739	728	642	509	457	661
65°	520	508	427	332	314	514
75°	289	280	224	179	174	306
85°	80	70	55	52	52	85
90°	4	19	33	41	44	8
95°	44	59	68	99	107	42
105°	103	107	154	206	219	107
115°	128	109	164	226	248	125
125°	118	105	142	208	234	105
135°	96	105	114	154	178	75
145°	78	91	99	106	113	50
155°	72	76	81	88	90	33
165°	70	73	76	78	78	20
175°	69	70	72	73	74	7
180°	68	68	68	68	68	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1357.4	1357.4	1357.4	1357.4	1357.4
2.5°	1361.5	1358.7	1347.7	1358.7	1356.0
5°	1358.7	1354.6	1343.6	1353.2	1351.9
7.5°	1353.2	1350.5	1338.1	1349.1	1347.7
10°	1346.3	1342.2	1331.2	1339.5	1334.0
12.5°	1336.7	1334.0	1317.4	1310.6	1299.5
15°	1324.3	1322.9	1295.4	1273.4	1259.6
17.5°	1310.6	1305.1	1266.5	1240.3	1228.0
20°	1294.0	1285.8	1234.8	1204.6	1192.2
22.5°	1274.8	1262.4	1203.2	1174.3	1161.9
25°	1251.4	1233.5	1167.4	1138.5	1131.6
27.5°	1225.2	1204.6	1134.3	1105.4	1097.2
30°	1197.7	1171.5	1097.2	1069.6	1054.5
32.5°	1163.3	1138.5	1061.4	1029.7	1013.2
35°	1130.2	1099.9	1024.2	984.3	967.8
37.5°	1090.3	1060.0	981.5	941.6	922.3
40°	1047.6	1017.3	940.2	893.4	868.7
42.5°	1000.8	973.3	894.8	838.4	790.2
45°	948.5	925.1	846.6	762.7	664.9
47.5°	900.3	878.3	798.4	689.7	589.2
50°	849.4	828.7	748.9	620.9	538.3
52.5°	792.9	777.8	695.2	561.7	495.6
55°	739.3	728.2	641.5	509.4	457.0
57.5°	682.8	671.8	587.8	459.8	418.5
60°	630.5	619.5	534.1	415.7	382.7
62.5°	578.2	563.0	481.8	373.1	345.5
65°	520.4	508.0	426.8	331.8	313.9
67.5°	462.5	451.5	375.8	293.2	280.8
70°	404.7	395.1	323.5	256.1	249.2
72.5°	348.3	335.9	276.7	218.9	216.1
75°	289.1	279.5	224.4	179.0	173.5
77.5°	232.7	224.4	176.2	136.3	132.2
80°	177.6	169.3	126.7	99.1	103.2
82.5°	130.8	119.8	85.4	77.1	81.2
85°	79.8	70.2	55.1	52.3	52.3
87.5°	27.5	26.2	24.8	28.9	30.3
90°	4.1	19.3	33.0	41.3	44.1
92.5°	23.4	34.4	45.4	53.7	56.4
95°	44.1	59.2	67.5	99.1	107.4
97.5°	60.6	78.5	88.1	117.0	125.3
100°	77.1	93.6	123.9	139.0	148.7
102.5°	90.9	103.2	145.9	176.2	181.7
105°	103.2	107.4	154.2	206.5	218.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	123.9	110.1	165.2	224.4	246.4
115°	128.0	108.8	163.8	225.8	247.8
117.5°	128.0	108.8	159.7	225.8	247.8
120°	125.3	110.1	154.2	223.0	246.4
122.5°	122.5	107.4	148.7	217.5	240.9
125°	118.4	104.6	141.8	207.9	234.0
127.5°	111.5	107.4	134.9	195.5	221.6
130°	106.0	108.8	126.7	183.1	209.2
132.5°	101.9	106.0	118.4	169.3	192.7
135°	96.4	104.6	114.3	154.2	177.6
137.5°	92.2	100.5	107.4	140.4	159.7
140°	88.1	97.7	100.5	122.5	139.0
142.5°	82.6	93.6	95.0	114.3	121.1
145°	78.5	90.9	99.1	106.0	112.9
147.5°	74.3	85.4	96.4	97.7	104.6
150°	73.0	79.8	92.2	93.6	96.4
152.5°	71.6	77.1	85.4	93.6	95.0
155°	71.6	75.7	81.2	88.1	89.5
157.5°	70.2	75.7	78.5	84.0	85.4
160°	70.2	74.3	77.1	81.2	82.6
162.5°	70.2	74.3	75.7	79.8	81.2
165°	70.2	73.0	75.7	78.5	78.5
167.5°	70.2	73.0	74.3	77.1	77.1
170°	70.2	71.6	74.3	75.7	75.7
172.5°	68.8	71.6	73.0	75.7	75.7
175°	68.8	70.2	71.6	73.0	74.3
177.5°	66.1	70.2	71.6	73.0	71.6
180°	67.5	67.5	67.5	67.5	67.5



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	112.9	108.8	159.7	217.5	235.4
110°	119.8	110.1	163.8	221.6	243.7



(END OF REPORT)