

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: P520500

Luminaire Tested: **4WSLA-125-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: P520500
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-L935-UPL8-UNV-U
Description: 4 FOOT, 1250 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

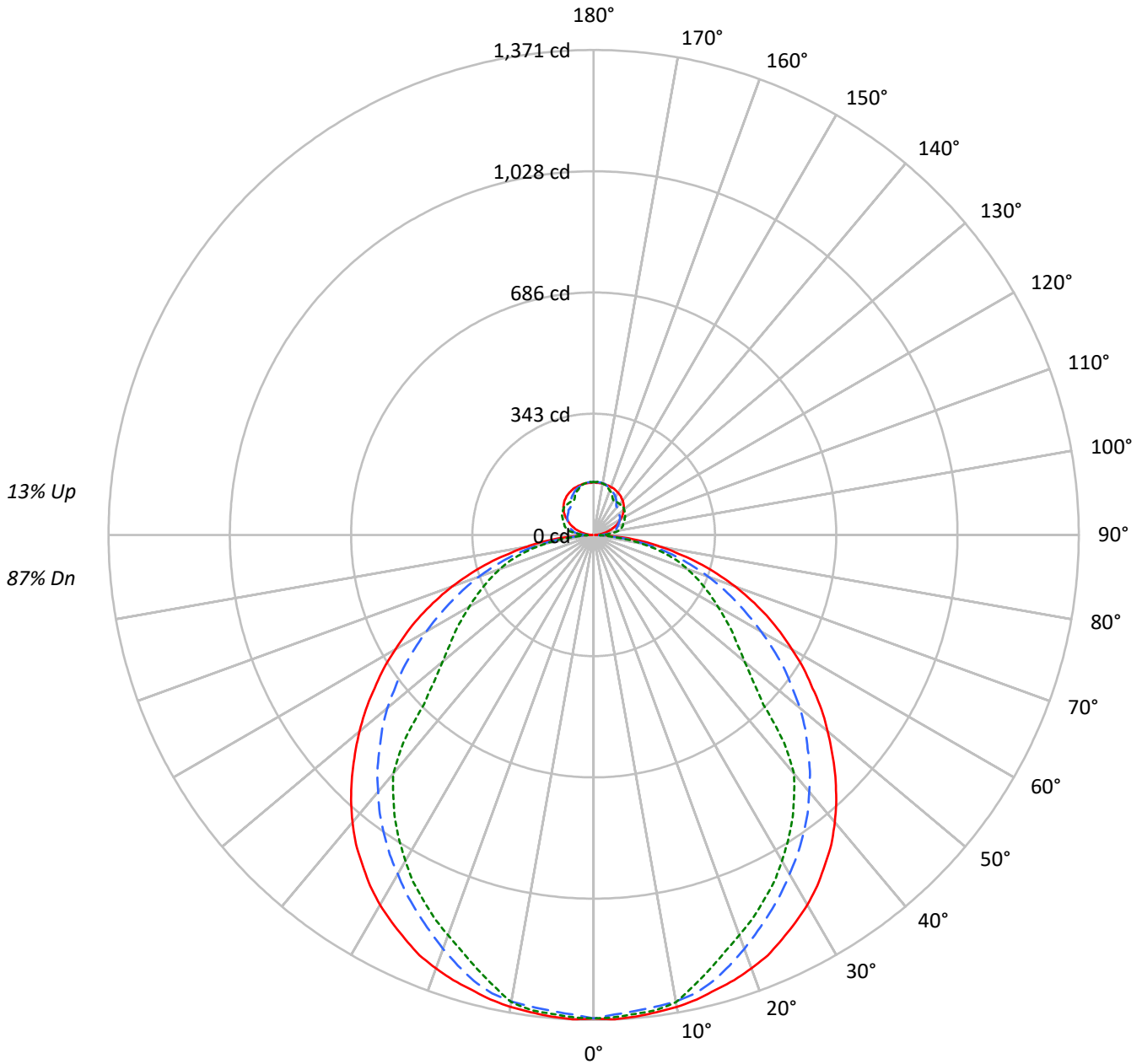
Lumens per Lamp: N/A
Luminaire Lumens: 4253.9 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

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°	7357	7357	7357
5°	7385	7300	7342
10°	7406	7320	7330
15°	7419	7276	7079
20°	7468	7131	6894
25°	7486	6996	6763
30°	7505	6881	6612
35°	7482	6784	6435
40°	7448	6660	6190
45°	7350	6511	5164
50°	7229	6373	4660
55°	7086	6164	4484
60°	6965	5886	4362
65°	6863	5635	4358
70°	6685	5416	4425
75°	6380	5153	4458
80°	5972	4634	4144
85°	5465	3279	2791



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.4	3.0
10°-20°	367.9	8.6
20°-30°	549.7	12.9
30°-40°	656.2	15.4
40°-50°	656.3	15.4
50°-60°	568.0	13.4
60°-70°	435.9	10.2
70°-80°	267.1	6.3
80°-90°	75.2	1.8
90°-100°	42.5	1.0
100°-110°	67.5	1.6
110°-120°	78.9	1.9
120°-130°	85.1	2.0
130°-140°	83.9	2.0
140°-150°	74.2	1.7
150°-160°	61.1	1.4
160°-170°	40.9	1.0
170°-180°	14.2	0.3
0°-30°	1047.0	24.6
0°-40°	1703.2	40.0
0°-60°	2927.4	68.8
0°-90°	3705.7	87.1
90°-120°	188.8	4.4
90°-150°	432.1	10.2
90°-180°	548.0	12.9
0°-180°	4253.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1367	1367	1367	1367	1367	
5°	1367	1363	1351	1361	1359	130
15°	1332	1330	1306	1282	1270	377
25°	1261	1245	1178	1147	1139	582
35°	1139	1109	1033	995	980	713
45°	966	938	856	779	678	745
55°	755	738	657	525	478	677
65°	539	519	442	356	342	532
75°	307	291	248	214	214	324
85°	88	73	53	45	45	93
90°	4	14	22	28	30	6
95°	16	33	45	47	47	15
105°	45	47	67	79	83	47
115°	75	63	79	90	96	73
125°	100	81	90	104	108	89
135°	120	108	100	110	116	93
145°	134	128	112	110	114	83
155°	142	140	132	126	124	65
165°	146	148	144	144	144	41
175°	148	150	150	151	151	14
180°	150	150	150	150	150	



TEST NUMBER: P520500

CATALOG NUMBER: 4WSLA-125-L935-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1366.9	1366.9	1366.9	1366.9	1366.9
2.5°	1370.8	1366.9	1357.1	1366.9	1364.9
5°	1366.9	1363.0	1351.2	1361.0	1359.0
7.5°	1361.0	1357.1	1345.3	1357.1	1355.1
10°	1355.1	1351.2	1339.4	1347.2	1341.3
12.5°	1345.3	1341.3	1327.6	1317.7	1305.9
15°	1331.5	1329.5	1305.9	1282.3	1270.5
17.5°	1319.7	1313.8	1276.4	1248.9	1235.1
20°	1304.0	1294.1	1245.0	1213.5	1203.7
22.5°	1286.3	1270.5	1211.5	1182.0	1174.2
25°	1260.7	1245.0	1178.1	1146.6	1138.8
27.5°	1235.1	1215.5	1144.7	1113.2	1105.3
30°	1207.6	1180.1	1107.3	1077.8	1064.0
32.5°	1176.1	1148.6	1071.9	1038.5	1022.7
35°	1138.8	1109.3	1032.6	995.2	979.5
37.5°	1103.4	1071.9	993.2	951.9	930.3
40°	1060.1	1028.6	948.0	902.8	881.1
42.5°	1014.9	985.4	904.7	849.6	796.5
45°	965.7	938.2	855.5	778.8	678.5
47.5°	914.6	891.0	810.3	706.1	609.7
50°	863.4	839.8	761.1	637.2	556.6
52.5°	812.3	792.6	706.1	580.2	513.3
55°	755.2	737.5	656.9	525.1	477.9
57.5°	704.1	686.4	599.9	479.9	440.6
60°	647.1	631.3	546.8	434.7	405.2
62.5°	594.0	576.3	493.7	395.3	373.7
65°	538.9	519.2	442.5	356.0	342.2
67.5°	481.9	462.2	393.4	320.6	312.7
70°	424.8	409.1	344.2	285.2	281.2
72.5°	365.8	348.1	295.0	251.7	251.7
75°	306.8	291.1	247.8	214.4	214.4
77.5°	245.8	238.0	198.6	175.0	177.0
80°	192.7	182.9	149.5	133.7	133.7
82.5°	141.6	129.8	100.3	88.5	92.4
85°	88.5	72.8	53.1	45.2	45.2
87.5°	27.5	21.6	15.7	17.7	17.7
90°	3.9	13.8	21.6	27.5	29.5
92.5°	9.8	25.6	31.5	37.4	39.3
95°	15.7	33.4	45.2	47.2	47.2
97.5°	21.6	37.4	55.1	62.9	62.9
100°	29.5	39.3	59.0	70.8	72.8
102.5°	37.4	43.3	62.9	74.7	78.7
105°	45.2	47.2	66.9	78.7	82.6



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CATALOG NUMBER: 4WSLA-125-L935-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	66.9	59.0	74.7	88.5	92.4
115°	74.7	62.9	78.7	90.5	96.4
117.5°	80.6	68.8	82.6	94.4	98.3
120°	86.5	72.8	84.6	98.3	102.3
122.5°	94.4	76.7	88.5	100.3	106.2
125°	100.3	80.6	90.5	104.2	108.2
127.5°	106.2	88.5	92.4	106.2	110.1
130°	110.1	96.4	94.4	108.2	112.1
132.5°	116.0	102.3	96.4	110.1	114.1
135°	120.0	108.2	100.3	110.1	116.0
137.5°	123.9	114.1	100.3	110.1	114.1
140°	127.8	120.0	102.3	110.1	114.1
142.5°	129.8	123.9	104.2	110.1	114.1
145°	133.7	127.8	112.1	110.1	114.1
147.5°	135.7	131.8	118.0	110.1	114.1
150°	137.7	135.7	123.9	112.1	112.1
152.5°	139.6	137.7	127.8	120.0	116.0
155°	141.6	139.6	131.8	125.9	123.9
157.5°	143.6	143.6	135.7	131.8	129.8
160°	143.6	145.5	139.6	135.7	133.7
162.5°	145.5	147.5	141.6	139.6	137.7
165°	145.5	147.5	143.6	143.6	143.6
167.5°	147.5	149.5	147.5	145.5	145.5
170°	147.5	149.5	147.5	147.5	147.5
172.5°	147.5	149.5	149.5	149.5	149.5
175°	147.5	149.5	149.5	151.4	151.4
177.5°	147.5	149.5	149.5	149.5	149.5
180°	149.5	149.5	149.5	149.5	149.5



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	53.1	51.1	68.8	82.6	86.5
110°	59.0	55.1	72.8	84.6	88.5



(END OF REPORT)