

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: P520503

Luminaire Tested: **4WSLA-125-L940-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: P520503
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-L940-UPL8-UNV-U
Description: 4 FOOT, 1250 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 90 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

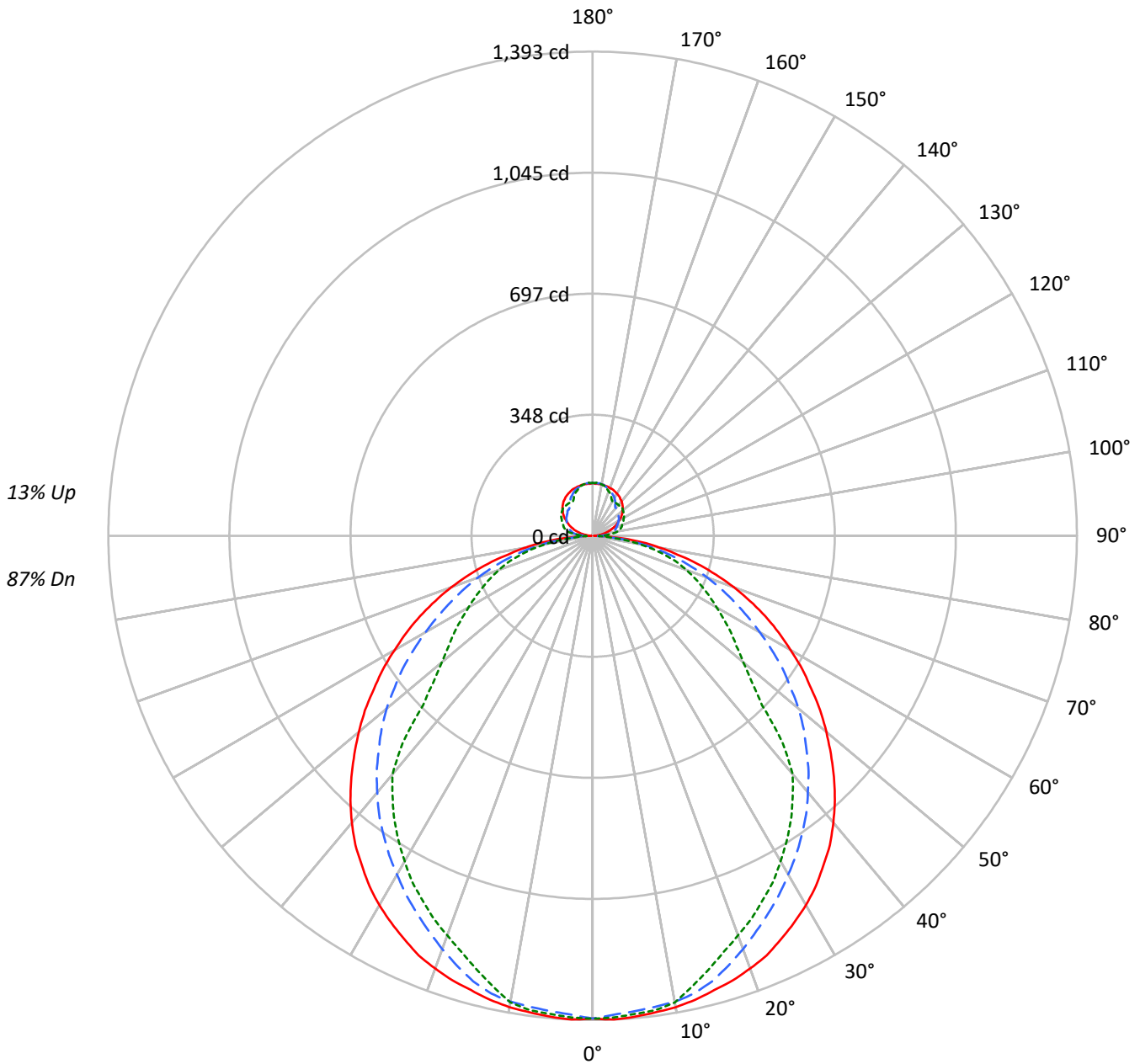
Lumens per Lamp: N/A
Luminaire Lumens: 4323.0 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 38.8
Input Voltage (V): NR
Input Current (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	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°	7476	7476	7476
5°	7505	7418	7461
10°	7526	7438	7449
15°	7539	7394	7194
20°	7589	7246	7006
25°	7608	7109	6872
30°	7626	6993	6720
35°	7603	6894	6539
40°	7569	6769	6291
45°	7470	6617	5248
50°	7346	6476	4736
55°	7202	6264	4557
60°	7078	5980	4432
65°	6974	5727	4429
70°	6793	5504	4497
75°	6484	5236	4531
80°	6072	4708	4212
85°	5551	3335	2841



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.5	3.0
10°-20°	373.9	8.6
20°-30°	558.6	12.9
30°-40°	666.8	15.4
40°-50°	666.9	15.4
50°-60°	577.2	13.4
60°-70°	443.0	10.2
70°-80°	271.5	6.3
80°-90°	76.4	1.8
90°-100°	43.2	1.0
100°-110°	68.6	1.6
110°-120°	80.1	1.9
120°-130°	86.5	2.0
130°-140°	85.2	2.0
140°-150°	75.4	1.7
150°-160°	62.1	1.4
160°-170°	41.5	1.0
170°-180°	14.5	0.3
0°-30°	1064.0	24.6
0°-40°	1730.8	40.0
0°-60°	2974.9	68.8
0°-90°	3765.8	87.1
90°-120°	191.9	4.4
90°-150°	439.1	10.2
90°-180°	557.0	12.9
0°-180°	4323.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1389	1389	1389	1389	1389	
5°	1389	1385	1373	1383	1381	132
15°	1353	1351	1327	1303	1291	383
25°	1281	1265	1197	1165	1157	591
35°	1157	1127	1049	1011	995	725
45°	981	953	869	792	690	757
55°	768	750	668	534	486	688
65°	548	528	450	362	348	541
75°	312	296	252	218	218	329
85°	90	74	54	46	46	94
90°	4	14	22	28	30	6
95°	16	34	46	48	48	16
105°	46	48	68	80	84	48
115°	76	64	80	92	98	74
125°	102	82	92	106	110	91
135°	122	110	102	112	118	94
145°	136	130	114	112	116	85
155°	144	142	134	128	126	66
165°	148	150	146	146	146	42
175°	150	152	152	154	154	14
180°	152	152	152	152	152	



TEST NUMBER: P520503

CATALOG NUMBER: 4WSLA-125-L940-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1389.1	1389.1	1389.1	1389.1	1389.1
2.5°	1393.1	1389.1	1379.1	1389.1	1387.1
5°	1389.1	1385.1	1373.1	1383.1	1381.1
7.5°	1383.1	1379.1	1367.1	1379.1	1377.1
10°	1377.1	1373.1	1361.1	1369.1	1363.1
12.5°	1367.1	1363.1	1349.1	1339.1	1327.1
15°	1353.1	1351.1	1327.1	1303.1	1291.1
17.5°	1341.1	1335.1	1297.1	1269.2	1255.2
20°	1325.1	1315.1	1265.2	1233.2	1223.2
22.5°	1307.1	1291.1	1231.2	1201.2	1193.2
25°	1281.2	1265.2	1197.2	1165.2	1157.2
27.5°	1255.2	1235.2	1163.2	1131.3	1123.3
30°	1227.2	1199.2	1125.3	1095.3	1081.3
32.5°	1195.2	1167.2	1089.3	1055.3	1039.3
35°	1157.2	1127.3	1049.3	1011.3	995.3
37.5°	1121.3	1089.3	1009.3	967.4	945.4
40°	1077.3	1045.3	963.4	917.4	895.4
42.5°	1031.3	1001.3	919.4	863.4	809.5
45°	981.4	953.4	869.4	791.5	689.5
47.5°	929.4	905.4	823.5	717.5	619.6
50°	877.4	853.4	773.5	647.6	565.6
52.5°	825.5	805.5	717.5	589.6	521.7
55°	767.5	749.5	667.6	533.6	485.7
57.5°	715.5	697.5	609.6	487.7	447.7
60°	657.6	641.6	555.6	441.7	411.7
62.5°	603.6	585.6	501.7	401.7	379.7
65°	547.6	527.7	449.7	361.8	347.8
67.5°	489.7	469.7	399.7	325.8	317.8
70°	431.7	415.7	349.8	289.8	285.8
72.5°	371.8	353.8	299.8	255.8	255.8
75°	311.8	295.8	251.8	217.9	217.9
77.5°	249.8	241.8	201.9	177.9	179.9
80°	195.9	185.9	151.9	135.9	135.9
82.5°	143.9	131.9	101.9	89.9	93.9
85°	89.9	74.0	54.0	46.0	46.0
87.5°	28.0	22.0	16.0	18.0	18.0
90°	4.0	14.0	22.0	28.0	30.0
92.5°	10.0	26.0	32.0	38.0	40.0
95°	16.0	34.0	46.0	48.0	48.0
97.5°	22.0	38.0	56.0	64.0	64.0
100°	30.0	40.0	60.0	72.0	74.0
102.5°	38.0	44.0	64.0	75.9	79.9
105°	46.0	48.0	68.0	79.9	83.9



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CATALOG NUMBER: 4WSLA-125-L940-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	68.0	60.0	75.9	89.9	93.9
115°	75.9	64.0	79.9	91.9	97.9
117.5°	81.9	70.0	83.9	95.9	99.9
120°	87.9	74.0	85.9	99.9	103.9
122.5°	95.9	77.9	89.9	101.9	107.9
125°	101.9	81.9	91.9	105.9	109.9
127.5°	107.9	89.9	93.9	107.9	111.9
130°	111.9	97.9	95.9	109.9	113.9
132.5°	117.9	103.9	97.9	111.9	115.9
135°	121.9	109.9	101.9	111.9	117.9
137.5°	125.9	115.9	101.9	111.9	115.9
140°	129.9	121.9	103.9	111.9	115.9
142.5°	131.9	125.9	105.9	111.9	115.9
145°	135.9	129.9	113.9	111.9	115.9
147.5°	137.9	133.9	119.9	111.9	115.9
150°	139.9	137.9	125.9	113.9	113.9
152.5°	141.9	139.9	129.9	121.9	117.9
155°	143.9	141.9	133.9	127.9	125.9
157.5°	145.9	145.9	137.9	133.9	131.9
160°	145.9	147.9	141.9	137.9	135.9
162.5°	147.9	149.9	143.9	141.9	139.9
165°	147.9	149.9	145.9	145.9	145.9
167.5°	149.9	151.9	149.9	147.9	147.9
170°	149.9	151.9	149.9	149.9	149.9
172.5°	149.9	151.9	151.9	151.9	151.9
175°	149.9	151.9	151.9	153.9	153.9
177.5°	149.9	151.9	151.9	151.9	151.9
180°	151.9	151.9	151.9	151.9	151.9



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	54.0	52.0	70.0	83.9	87.9
110°	60.0	56.0	74.0	85.9	89.9



(END OF REPORT)