

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: P520499

Luminaire Tested: **4WSLA-125-L935-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: P520499
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-L935-UPL15-UNV-U
Description: 4 FOOT, 1250 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 90 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

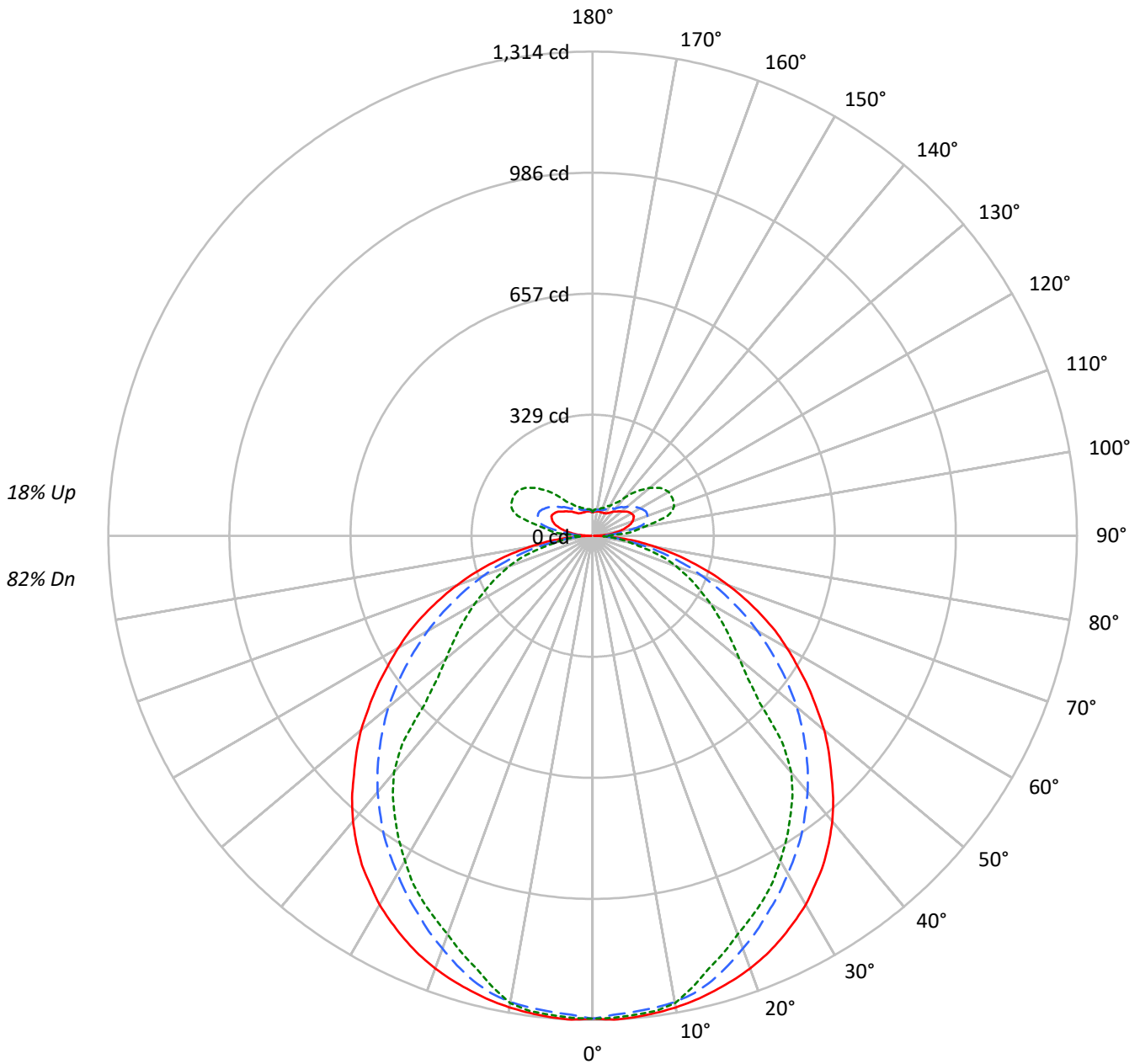
Lumens per Lamp: N/A
Luminaire Lumens: 4244.0 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 38.8
Input Voltage (V): NR
Input Current (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

TEST NUMBER: P520499

CATALOG NUMBER: 4WSLA-125-L935-UPL15-UNV-U

Luminous Intensity Polar Plot





TEST NUMBER: P520499

CATALOG NUMBER: 4WSLA-125-L935-UPL15-UNV-U

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°	7053	7053	7053
5°	7087	7008	7051
10°	7103	7024	7038
15°	7124	6968	6776
20°	7155	6828	6592
25°	7174	6693	6488
30°	7186	6582	6326
35°	7169	6497	6138
40°	7106	6377	5892
45°	6970	6221	4886
50°	6866	6054	4351
55°	6697	5811	4140
60°	6552	5551	3977
65°	6398	5247	3859
70°	6148	4914	3786
75°	5804	4504	3483
80°	5312	3790	3090
85°	4761	3285	3118



TEST NUMBER: P520499

CATALOG NUMBER: 4WSLA-125-L935-UPL15-UNV-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.2	2.9
10°-20°	352.8	8.3
20°-30°	526.5	12.4
30°-40°	627.3	14.8
40°-50°	624.0	14.7
50°-60°	534.8	12.6
60°-70°	402.8	9.5
70°-80°	233.3	5.5
80°-90°	70.1	1.7
90°-100°	75.3	1.8
100°-110°	154.6	3.6
110°-120°	163.4	3.9
120°-130°	136.3	3.2
130°-140°	95.2	2.2
140°-150°	59.3	1.4
150°-160°	36.7	0.9
160°-170°	20.7	0.5
170°-180°	6.7	0.2
<hr/>		
0°-30°	1003.5	23.6
0°-40°	1630.8	38.4
0°-60°	2789.6	65.7
0°-90°	3495.8	82.4
90°-120°	393.3	9.3
90°-150°	684.1	16.1
90°-180°	748.0	17.6
0°-180°	4244.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1310	1310	1310	1310	1310	
5°	1312	1308	1297	1306	1305	125
15°	1278	1277	1251	1229	1216	361
25°	1208	1191	1127	1099	1092	557
35°	1091	1062	989	950	934	682
45°	916	893	817	736	642	708
55°	714	703	619	492	441	638
65°	502	490	412	320	303	497
75°	279	270	217	173	168	296
85°	77	68	53	50	50	82
90°	4	19	32	40	42	8
95°	42	57	65	96	104	41
105°	100	104	149	199	211	103
115°	124	105	158	218	239	120
125°	114	101	137	201	226	102
135°	93	101	110	149	171	73
145°	76	88	96	102	109	48
155°	69	73	78	85	86	32
165°	68	70	73	76	76	19
175°	66	68	69	70	72	6
180°	65	65	65	65	65	



TEST NUMBER: P520499

CATALOG NUMBER: 4WSLA-125-L935-UPL15-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1310.4	1310.4	1310.4	1310.4	1310.4
2.5°	1314.4	1311.8	1301.1	1311.8	1309.1
5°	1311.8	1307.8	1297.1	1306.4	1305.1
7.5°	1306.4	1303.8	1291.8	1302.5	1301.1
10°	1299.8	1295.8	1285.2	1293.2	1287.8
12.5°	1290.5	1287.8	1271.9	1265.2	1254.6
15°	1278.5	1277.2	1250.6	1229.4	1216.1
17.5°	1265.2	1259.9	1222.7	1197.5	1185.5
20°	1249.3	1241.3	1192.1	1162.9	1150.9
22.5°	1230.7	1218.7	1161.6	1133.7	1121.7
25°	1208.1	1190.8	1127.0	1099.1	1092.5
27.5°	1182.8	1162.9	1095.1	1067.2	1059.2
30°	1156.3	1131.0	1059.2	1032.7	1018.0
32.5°	1123.0	1099.1	1024.7	994.1	978.2
35°	1091.1	1061.9	988.8	950.3	934.3
37.5°	1052.6	1023.4	947.6	909.1	890.5
40°	1011.4	982.2	907.7	862.5	838.6
42.5°	966.2	939.6	863.9	809.4	762.9
45°	915.7	893.1	817.4	736.3	641.9
47.5°	869.2	847.9	770.8	665.8	568.8
50°	820.0	800.1	723.0	599.4	519.7
52.5°	765.5	750.9	671.2	542.2	478.5
55°	713.7	703.1	619.3	491.7	441.2
57.5°	659.2	648.6	567.5	443.9	404.0
60°	608.7	598.1	515.7	401.4	369.5
62.5°	558.2	543.6	465.2	360.2	333.6
65°	502.4	490.4	412.0	320.3	303.0
67.5°	446.6	435.9	362.8	283.1	271.1
70°	390.7	381.4	312.3	247.2	240.6
72.5°	336.2	324.3	267.1	211.3	208.7
75°	279.1	269.8	216.6	172.8	167.5
77.5°	224.6	216.6	170.1	131.6	127.6
80°	171.4	163.5	122.3	95.7	99.7
82.5°	126.3	115.6	82.4	74.4	78.4
85°	77.1	67.8	53.2	50.5	50.5
87.5°	26.6	25.3	23.9	27.9	29.2
90°	4.0	18.6	31.9	39.9	42.5
92.5°	22.6	33.2	43.9	51.8	54.5
95°	42.5	57.1	65.1	95.7	103.7
97.5°	58.5	75.8	85.1	113.0	120.9
100°	74.4	90.4	119.6	134.2	143.5
102.5°	87.7	99.7	140.9	170.1	175.4
105°	99.7	103.7	148.9	199.4	211.3



TEST NUMBER: P520499

CATALOG NUMBER: 4WSLA-125-L935-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	119.6	106.3	159.5	216.6	237.9
115°	123.6	105.0	158.2	218.0	239.2
117.5°	123.6	105.0	154.2	218.0	239.2
120°	120.9	106.3	148.9	215.3	237.9
122.5°	118.3	103.7	143.5	210.0	232.6
125°	114.3	101.0	136.9	200.7	225.9
127.5°	107.7	103.7	130.2	188.7	214.0
130°	102.3	105.0	122.3	176.8	202.0
132.5°	98.3	102.3	114.3	163.5	186.1
135°	93.0	101.0	110.3	148.9	171.4
137.5°	89.0	97.0	103.7	135.6	154.2
140°	85.1	94.4	97.0	118.3	134.2
142.5°	79.7	90.4	91.7	110.3	117.0
145°	75.8	87.7	95.7	102.3	109.0
147.5°	71.8	82.4	93.0	94.4	101.0
150°	70.4	77.1	89.0	90.4	93.0
152.5°	69.1	74.4	82.4	90.4	91.7
155°	69.1	73.1	78.4	85.1	86.4
157.5°	67.8	73.1	75.8	81.1	82.4
160°	67.8	71.8	74.4	78.4	79.7
162.5°	67.8	71.8	73.1	77.1	78.4
165°	67.8	70.4	73.1	75.8	75.8
167.5°	67.8	70.4	71.8	74.4	74.4
170°	67.8	69.1	71.8	73.1	73.1
172.5°	66.5	69.1	70.4	73.1	73.1
175°	66.5	67.8	69.1	70.4	71.8
177.5°	63.8	67.8	69.1	70.4	69.1
180°	65.1	65.1	65.1	65.1	65.1



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	109.0	105.0	154.2	210.0	227.3
110°	115.6	106.3	158.2	214.0	235.2



(END OF REPORT)