

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: P520487

Luminaire Tested: **4WSLA-125-L835-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: P520487
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-L835-UPL15-UNV-U
Description: 4 FOOT, 1250 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

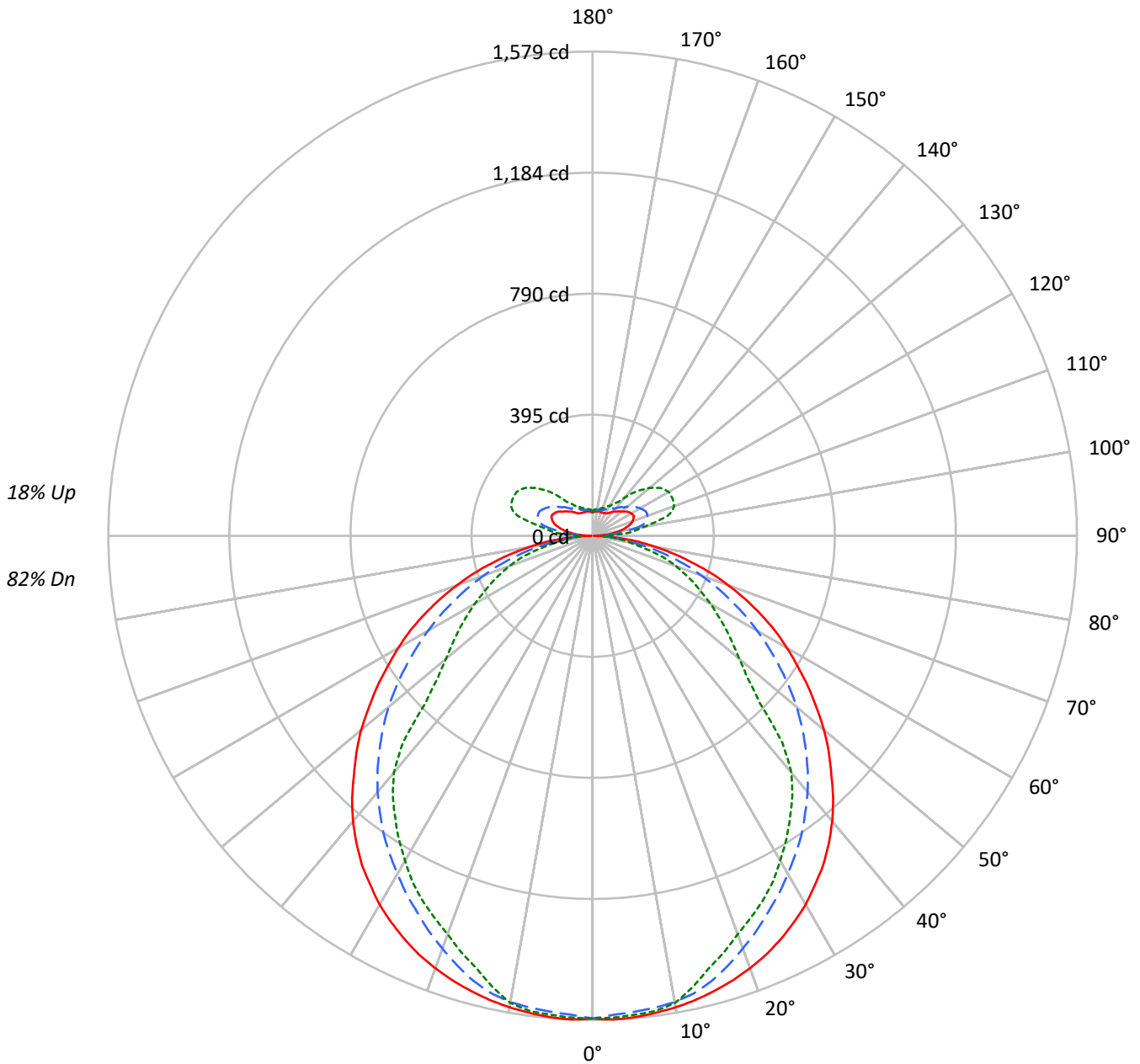
Lumens per Lamp: N/A
Luminaire Lumens: 5098.9 lumens
Efficiency: N/A
Efficacy: 131.4 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

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: P520487

CATALOG NUMBER: 4WSLA-125-L835-UPL15-UNV-U

Luminous Intensity Polar Plot





TEST NUMBER: P520487

CATALOG NUMBER: 4WSLA-125-L835-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°	8473	8473	8473
5°	8514	8420	8471
10°	8535	8438	8456
15°	8559	8372	8141
20°	8597	8203	7920
25°	8619	8041	7795
30°	8633	7909	7601
35°	8613	7805	7375
40°	8538	7662	7079
45°	8374	7474	5870
50°	8249	7273	5227
55°	8046	6982	4974
60°	7872	6669	4778
65°	7687	6304	4637
70°	7388	5904	4548
75°	6972	5413	4184
80°	6385	4553	3713
85°	5718	3946	3748



TEST NUMBER: P520487

CATALOG NUMBER: 4WSLA-125-L835-UPL15-UNV-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.2	2.9
10°-20°	423.9	8.3
20°-30°	632.6	12.4
30°-40°	753.7	14.8
40°-50°	749.7	14.7
50°-60°	642.5	12.6
60°-70°	483.9	9.5
70°-80°	280.3	5.5
80°-90°	84.2	1.7
90°-100°	90.4	1.8
100°-110°	185.7	3.6
110°-120°	196.3	3.9
120°-130°	163.8	3.2
130°-140°	114.4	2.2
140°-150°	71.2	1.4
150°-160°	44.1	0.9
160°-170°	24.9	0.5
170°-180°	8.0	0.2
0°-30°	1205.7	23.6
0°-40°	1959.4	38.4
0°-60°	3351.6	65.7
0°-90°	4200.0	82.4
90°-120°	472.5	9.3
90°-150°	821.9	16.1
90°-180°	899.0	17.6
0°-180°	5098.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1574	1574	1574	1574	1574	
5°	1576	1571	1558	1570	1568	150
15°	1536	1534	1503	1477	1461	434
25°	1452	1431	1354	1320	1313	669
35°	1311	1276	1188	1142	1122	819
45°	1100	1073	982	885	771	851
55°	858	845	744	591	530	767
65°	604	589	495	385	364	597
75°	335	324	260	208	201	355
85°	93	81	64	61	61	99
90°	5	22	38	48	51	9
95°	51	69	78	115	124	49
105°	120	124	179	240	254	124
115°	148	126	190	262	287	145
125°	137	121	164	241	272	122
135°	112	121	132	179	206	87
145°	91	105	115	123	131	58
155°	83	88	94	102	104	38
165°	81	85	88	91	91	23
175°	80	81	83	85	86	8
180°	78	78	78	78	78	



TEST NUMBER: P520487

CATALOG NUMBER: 4WSLA-125-L835-UPL15-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1574.4	1574.4	1574.4	1574.4	1574.4
2.5°	1579.2	1576.0	1563.3	1576.0	1572.8
5°	1576.0	1571.2	1558.5	1569.6	1568.0
7.5°	1569.6	1566.4	1552.1	1564.8	1563.3
10°	1561.7	1556.9	1544.1	1553.7	1547.3
12.5°	1550.5	1547.3	1528.1	1520.1	1507.4
15°	1536.1	1534.5	1502.6	1477.0	1461.1
17.5°	1520.1	1513.8	1469.0	1438.7	1424.3
20°	1501.0	1491.4	1432.3	1397.2	1382.8
22.5°	1478.6	1464.3	1395.6	1362.1	1347.7
25°	1451.5	1430.7	1354.1	1320.5	1312.6
27.5°	1421.1	1397.2	1315.8	1282.2	1272.6
30°	1389.2	1358.9	1272.6	1240.7	1223.1
32.5°	1349.3	1320.5	1231.1	1194.4	1175.2
35°	1311.0	1275.8	1188.0	1141.7	1122.5
37.5°	1264.7	1229.5	1138.5	1092.2	1069.8
40°	1215.2	1180.0	1090.6	1036.3	1007.6
42.5°	1160.9	1128.9	1037.9	972.4	916.6
45°	1100.2	1073.0	982.0	884.6	771.2
47.5°	1044.3	1018.7	926.1	800.0	683.4
50°	985.2	961.3	868.7	720.1	624.3
52.5°	919.7	902.2	806.4	651.5	574.8
55°	857.5	844.7	744.1	590.8	530.1
57.5°	792.0	779.2	681.8	533.3	485.4
60°	731.3	718.6	619.6	482.2	443.9
62.5°	670.6	653.1	558.9	432.7	400.8
65°	603.6	589.2	495.0	384.8	364.1
67.5°	536.5	523.7	435.9	340.1	325.7
70°	469.5	458.3	375.2	297.0	289.0
72.5°	404.0	389.6	321.0	253.9	250.7
75°	335.3	324.1	260.3	207.6	201.2
77.5°	269.9	260.3	204.4	158.1	153.3
80°	206.0	196.4	146.9	115.0	119.8
82.5°	151.7	138.9	99.0	89.4	94.2
85°	92.6	81.4	63.9	60.7	60.7
87.5°	31.9	30.3	28.7	33.5	35.1
90°	4.8	22.4	38.3	47.9	51.1
92.5°	27.1	39.9	52.7	62.3	65.5
95°	51.1	68.7	78.2	115.0	124.5
97.5°	70.3	91.0	102.2	135.7	145.3
100°	89.4	108.6	143.7	161.3	172.5
102.5°	105.4	119.8	169.3	204.4	210.8
105°	119.8	124.5	178.8	239.5	253.9



TEST NUMBER: P520487

CATALOG NUMBER: 4WSLA-125-L835-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	143.7	127.7	191.6	260.3	285.8
115°	148.5	126.1	190.0	261.9	287.4
117.5°	148.5	126.1	185.2	261.9	287.4
120°	145.3	127.7	178.8	258.7	285.8
122.5°	142.1	124.5	172.5	252.3	279.4
125°	137.3	121.4	164.5	241.1	271.5
127.5°	129.3	124.5	156.5	226.7	257.1
130°	123.0	126.1	146.9	212.4	242.7
132.5°	118.2	123.0	137.3	196.4	223.5
135°	111.8	121.4	132.5	178.8	206.0
137.5°	107.0	116.6	124.5	162.9	185.2
140°	102.2	113.4	116.6	142.1	161.3
142.5°	95.8	108.6	110.2	132.5	140.5
145°	91.0	105.4	115.0	123.0	130.9
147.5°	86.2	99.0	111.8	113.4	121.4
150°	84.6	92.6	107.0	108.6	111.8
152.5°	83.0	89.4	99.0	108.6	110.2
155°	83.0	87.8	94.2	102.2	103.8
157.5°	81.4	87.8	91.0	97.4	99.0
160°	81.4	86.2	89.4	94.2	95.8
162.5°	81.4	86.2	87.8	92.6	94.2
165°	81.4	84.6	87.8	91.0	91.0
167.5°	81.4	84.6	86.2	89.4	89.4
170°	81.4	83.0	86.2	87.8	87.8
172.5°	79.8	83.0	84.6	87.8	87.8
175°	79.8	81.4	83.0	84.6	86.2
177.5°	76.6	81.4	83.0	84.6	83.0
180°	78.2	78.2	78.2	78.2	78.2



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	130.9	126.1	185.2	252.3	273.1
110°	138.9	127.7	190.0	257.1	282.6



(END OF REPORT)