

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: P520490

Luminaire Tested: **4WSLA-125-L840-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: P520490
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-L840-UPL15-UNV-U
Description: 4 FOOT, 1250 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

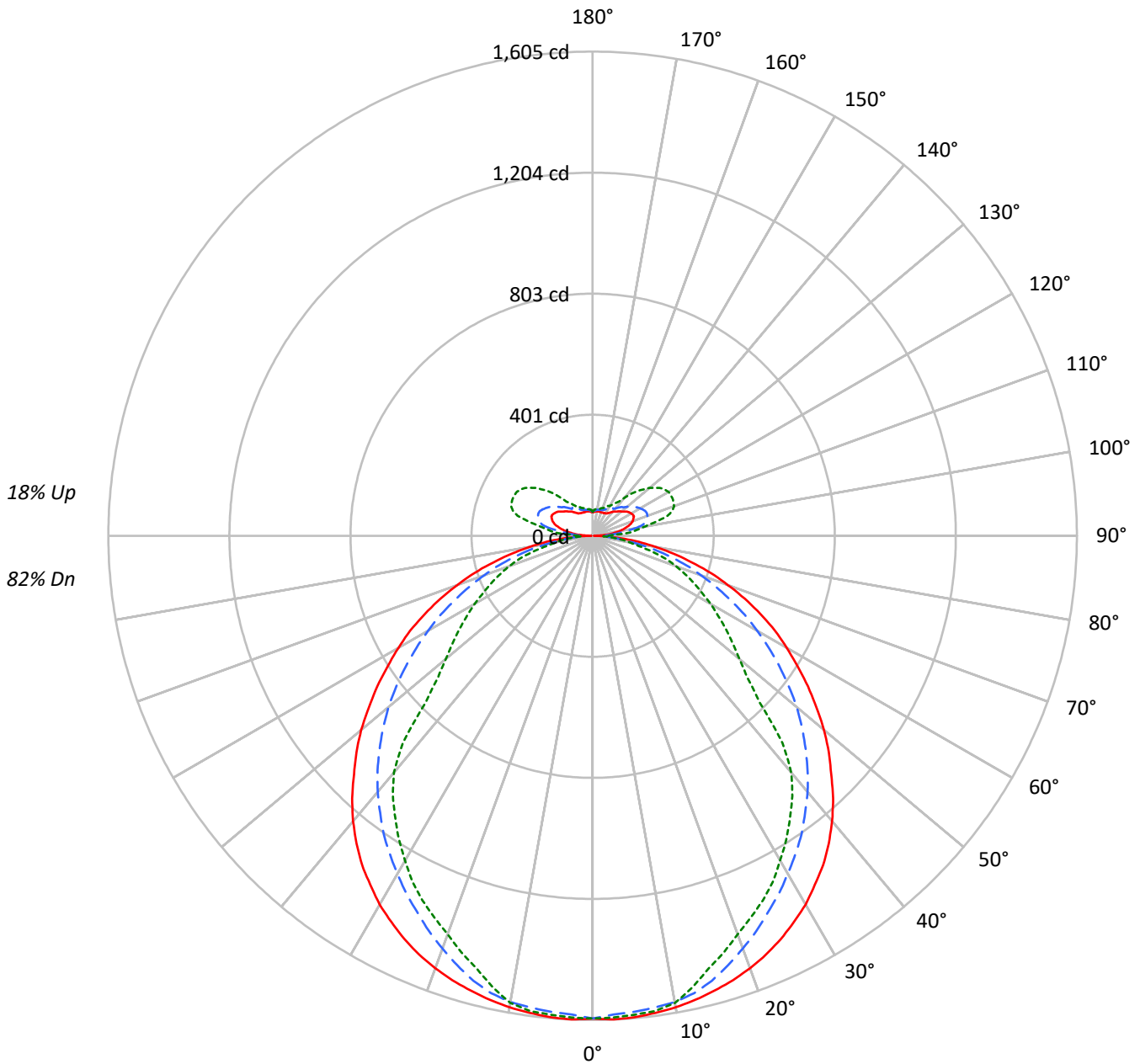
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5182.0 lumens
Efficiency: N/A
Efficacy: 133.6 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

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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°	8612	8612	8612
5°	8653	8557	8609
10°	8673	8576	8594
15°	8698	8508	8273
20°	8737	8337	8049
25°	8760	8172	7921
30°	8774	8038	7725
35°	8753	7932	7495
40°	8676	7787	7194
45°	8510	7596	5966
50°	8384	7392	5313
55°	8176	7096	5056
60°	8000	6777	4856
65°	7812	6407	4712
70°	7508	6002	4622
75°	7087	5500	4252
80°	6487	4627	3772
85°	5811	4008	3810



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.6	2.9
10°-20°	430.8	8.3
20°-30°	642.9	12.4
30°-40°	766.0	14.8
40°-50°	761.9	14.7
50°-60°	653.0	12.6
60°-70°	491.8	9.5
70°-80°	284.8	5.5
80°-90°	85.6	1.7
90°-100°	91.9	1.8
100°-110°	188.7	3.6
110°-120°	199.5	3.9
120°-130°	166.5	3.2
130°-140°	116.3	2.2
140°-150°	72.4	1.4
150°-160°	44.9	0.9
160°-170°	25.3	0.5
170°-180°	8.1	0.2
0°-30°	1225.3	23.6
0°-40°	1991.3	38.4
0°-60°	3406.2	65.7
0°-90°	4268.4	82.4
90°-120°	480.2	9.3
90°-150°	835.3	16.1
90°-180°	914.0	17.6
0°-180°	5182.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1600	1600	1600	1600	1600	
5°	1602	1597	1584	1595	1594	152
15°	1561	1560	1527	1501	1485	441
25°	1475	1454	1376	1342	1334	680
35°	1332	1297	1207	1160	1141	832
45°	1118	1090	998	899	784	864
55°	871	858	756	600	539	779
65°	613	599	503	391	370	606
75°	341	329	264	211	204	361
85°	94	83	65	62	62	100
90°	5	23	39	49	52	10
95°	52	70	80	117	127	50
105°	122	127	182	243	258	126
115°	151	128	193	266	292	147
125°	140	123	167	245	276	124
135°	114	123	135	182	209	89
145°	92	107	117	125	133	59
155°	84	89	96	104	106	39
165°	83	86	89	92	92	23
175°	81	83	84	86	88	8
180°	80	80	80	80	80	



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CATALOG NUMBER: 4WSLA-125-L840-UPL15-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1600.1	1600.1	1600.1	1600.1	1600.1
2.5°	1604.9	1601.7	1588.7	1601.7	1598.4
5°	1601.7	1596.8	1583.8	1595.2	1593.6
7.5°	1595.2	1591.9	1577.3	1590.3	1588.7
10°	1587.1	1582.2	1569.2	1579.0	1572.5
12.5°	1575.7	1572.5	1553.0	1544.9	1531.9
15°	1561.1	1559.5	1527.0	1501.1	1484.8
17.5°	1544.9	1538.4	1493.0	1462.1	1447.5
20°	1525.4	1515.7	1455.6	1419.9	1405.3
22.5°	1502.7	1488.1	1418.3	1384.2	1369.6
25°	1475.1	1454.0	1376.1	1342.0	1333.9
27.5°	1444.3	1419.9	1337.2	1303.1	1293.4
30°	1411.8	1381.0	1293.4	1260.9	1243.0
32.5°	1371.2	1342.0	1251.2	1213.8	1194.4
35°	1332.3	1296.6	1207.3	1160.3	1140.8
37.5°	1285.2	1249.5	1157.0	1110.0	1087.3
40°	1234.9	1199.2	1108.4	1053.2	1024.0
42.5°	1179.8	1147.3	1054.8	988.3	931.5
45°	1118.1	1090.5	998.0	899.0	783.8
47.5°	1061.3	1035.3	941.2	813.0	694.5
50°	1001.3	976.9	882.8	731.9	634.5
52.5°	934.7	916.9	819.5	662.1	584.2
55°	871.4	858.4	756.2	600.4	538.8
57.5°	804.9	791.9	692.9	542.0	493.3
60°	743.2	730.2	629.6	490.1	451.1
62.5°	681.6	663.7	568.0	439.8	407.3
65°	613.4	598.8	503.1	391.1	370.0
67.5°	545.3	532.3	443.0	345.7	331.0
70°	477.1	465.7	381.4	301.8	293.7
72.5°	410.6	396.0	326.2	258.0	254.8
75°	340.8	329.4	264.5	211.0	204.5
77.5°	274.2	264.5	207.7	160.7	155.8
80°	209.3	199.6	149.3	116.8	121.7
82.5°	154.2	141.2	100.6	90.9	95.7
85°	94.1	82.8	64.9	61.7	61.7
87.5°	32.5	30.8	29.2	34.1	35.7
90°	4.9	22.7	38.9	48.7	51.9
92.5°	27.6	40.6	53.6	63.3	66.5
95°	51.9	69.8	79.5	116.8	126.6
97.5°	71.4	92.5	103.9	137.9	147.7
100°	90.9	110.3	146.0	163.9	175.3
102.5°	107.1	121.7	172.0	207.7	214.2
105°	121.7	126.6	181.8	243.4	258.0



TEST NUMBER: P520490

CATALOG NUMBER: 4WSLA-125-L840-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	146.0	129.8	194.7	264.5	290.5
115°	150.9	128.2	193.1	266.1	292.1
117.5°	150.9	128.2	188.2	266.1	292.1
120°	147.7	129.8	181.8	262.9	290.5
122.5°	144.4	126.6	175.3	256.4	284.0
125°	139.6	123.3	167.1	245.0	275.9
127.5°	131.4	126.6	159.0	230.4	261.3
130°	125.0	128.2	149.3	215.8	246.7
132.5°	120.1	125.0	139.6	199.6	227.2
135°	113.6	123.3	134.7	181.8	209.3
137.5°	108.7	118.5	126.6	165.5	188.2
140°	103.9	115.2	118.5	144.4	163.9
142.5°	97.4	110.3	112.0	134.7	142.8
145°	92.5	107.1	116.8	125.0	133.1
147.5°	87.6	100.6	113.6	115.2	123.3
150°	86.0	94.1	108.7	110.3	113.6
152.5°	84.4	90.9	100.6	110.3	112.0
155°	84.4	89.3	95.7	103.9	105.5
157.5°	82.8	89.3	92.5	99.0	100.6
160°	82.8	87.6	90.9	95.7	97.4
162.5°	82.8	87.6	89.3	94.1	95.7
165°	82.8	86.0	89.3	92.5	92.5
167.5°	82.8	86.0	87.6	90.9	90.9
170°	82.8	84.4	87.6	89.3	89.3
172.5°	81.1	84.4	86.0	89.3	89.3
175°	81.1	82.8	84.4	86.0	87.6
177.5°	77.9	82.8	84.4	86.0	84.4
180°	79.5	79.5	79.5	79.5	79.5



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	133.1	128.2	188.2	256.4	277.5
110°	141.2	129.8	193.1	261.3	287.2



(END OF REPORT)