

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: P520613

Luminaire Tested: **4WSLA-75-L850-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: P520613
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-75-L850-UPL15-UNV-U
Description: 4 FOOT, 750 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

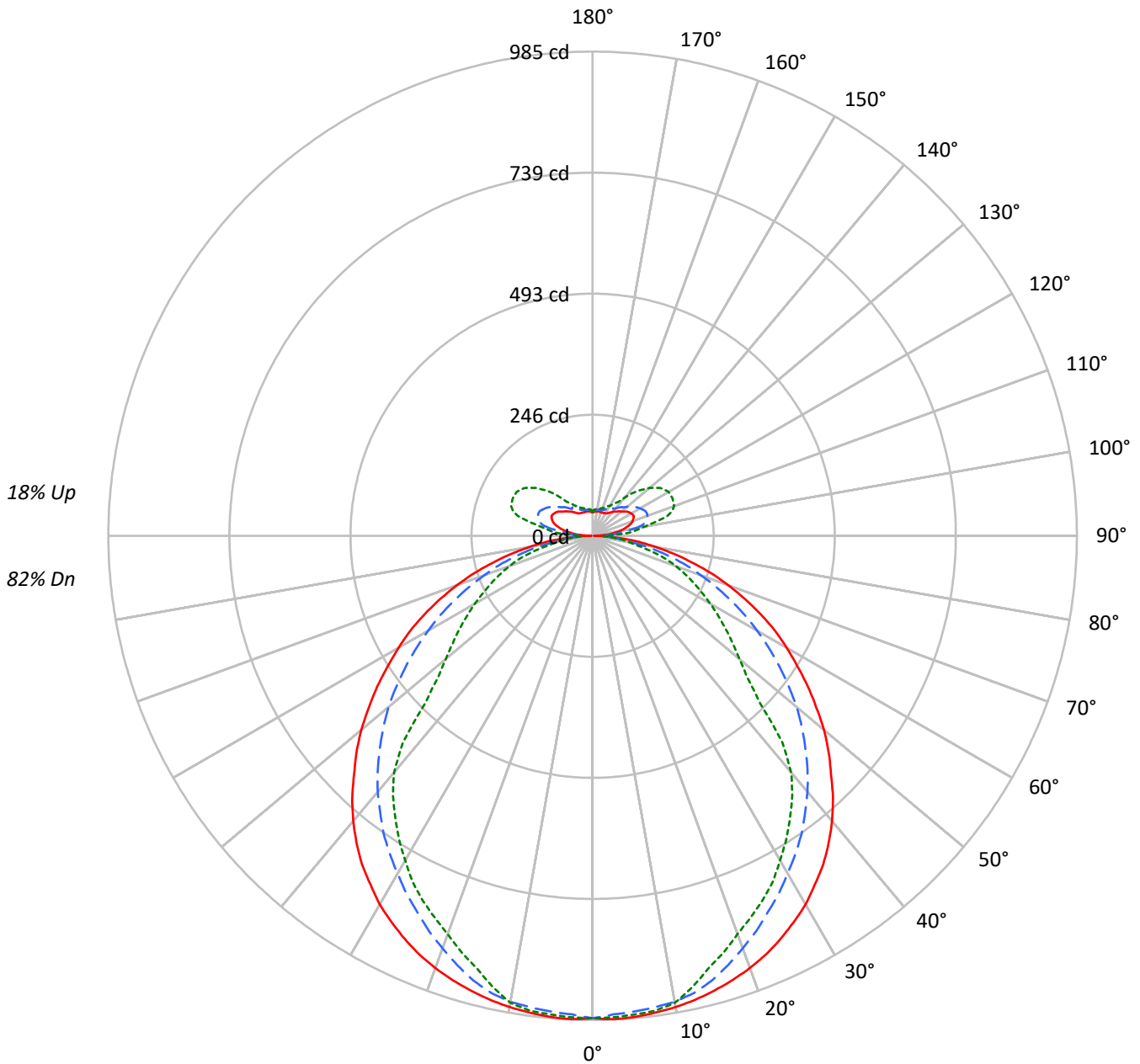
Lumens per Lamp: N/A
Luminaire Lumens: 3179.0 lumens
Efficiency: N/A
Efficacy: 137.0 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 23.2
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°	5283	5283	5283
5°	5309	5249	5281
10°	5321	5261	5272
15°	5336	5220	5075
20°	5360	5115	4938
25°	5374	5013	4859
30°	5382	4931	4739
35°	5370	4867	4598
40°	5323	4777	4414
45°	5221	4660	3659
50°	5143	4535	3260
55°	5016	4353	3101
60°	4908	4158	2979
65°	4792	3930	2891
70°	4606	3681	2836
75°	4348	3375	2608
80°	3980	2839	2315
85°	3563	2458	2334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.0	2.9
10°-20°	264.3	8.3
20°-30°	394.4	12.4
30°-40°	469.9	14.8
40°-50°	467.4	14.7
50°-60°	400.6	12.6
60°-70°	301.7	9.5
70°-80°	174.7	5.5
80°-90°	52.5	1.7
90°-100°	56.4	1.8
100°-110°	115.8	3.6
110°-120°	122.4	3.9
120°-130°	102.1	3.2
130°-140°	71.3	2.2
140°-150°	44.4	1.4
150°-160°	27.5	0.9
160°-170°	15.5	0.5
170°-180°	5.0	0.2
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0°-30°	751.7	23.6
0°-40°	1221.6	38.4
0°-60°	2089.6	65.7
0°-90°	2618.5	82.4
90°-120°	294.6	9.3
90°-150°	512.4	16.1
90°-180°	560.0	17.6
0°-180°	3179.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	982	982	982	982	982	
5°	983	980	972	979	978	93
15°	958	957	937	921	911	271
25°	905	892	844	823	818	417
35°	817	795	741	712	700	510
45°	686	669	612	552	481	530
55°	535	527	464	368	330	478
65°	376	367	309	240	227	372
75°	209	202	162	129	125	221
85°	58	51	40	38	38	62
90°	3	14	24	30	32	6
95°	32	43	49	72	78	30
105°	75	78	112	149	158	77
115°	93	79	118	163	179	90
125°	86	76	102	150	169	76
135°	70	76	83	112	128	54
145°	57	66	72	77	82	36
155°	52	55	59	64	65	24
165°	51	53	55	57	57	14
175°	50	51	52	53	54	5
180°	49	49	49	49	49	



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CATALOG NUMBER: 4WSLA-75-L850-UPL15-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	981.6	981.6	981.6	981.6	981.6
2.5°	984.6	982.6	974.6	982.6	980.6
5°	982.6	979.6	971.6	978.6	977.6
7.5°	978.6	976.6	967.6	975.6	974.6
10°	973.6	970.6	962.7	968.6	964.7
12.5°	966.7	964.7	952.7	947.7	939.8
15°	957.7	956.7	936.8	920.9	910.9
17.5°	947.7	943.8	915.9	897.0	888.0
20°	935.8	929.8	893.0	871.1	862.1
22.5°	921.9	912.9	870.1	849.2	840.2
25°	904.9	892.0	844.2	823.3	818.3
27.5°	886.0	871.1	820.3	799.4	793.4
30°	866.1	847.2	793.4	773.5	762.6
32.5°	841.2	823.3	767.5	744.7	732.7
35°	817.3	795.4	740.7	711.8	699.9
37.5°	788.5	766.6	709.8	680.9	667.0
40°	757.6	735.7	679.9	646.1	628.2
42.5°	723.7	703.8	647.1	606.3	571.4
45°	685.9	669.0	612.2	551.5	480.8
47.5°	651.1	635.1	577.4	498.8	426.1
50°	614.2	599.3	541.6	449.0	389.3
52.5°	573.4	562.5	502.7	406.2	358.4
55°	534.6	526.6	463.9	368.3	330.5
57.5°	493.8	485.8	425.1	332.5	302.6
60°	456.0	448.0	386.3	300.6	276.8
62.5°	418.1	407.2	348.4	269.8	249.9
65°	376.3	367.3	308.6	239.9	227.0
67.5°	334.5	326.5	271.8	212.0	203.1
70°	292.7	285.7	233.9	185.2	180.2
72.5°	251.9	242.9	200.1	158.3	156.3
75°	209.1	202.1	162.3	129.4	125.4
77.5°	168.2	162.3	127.4	98.6	95.6
80°	128.4	122.4	91.6	71.7	74.7
82.5°	94.6	86.6	61.7	55.7	58.7
85°	57.7	50.8	39.8	37.8	37.8
87.5°	19.9	18.9	17.9	20.9	21.9
90°	3.0	13.9	23.9	29.9	31.9
92.5°	16.9	24.9	32.9	38.8	40.8
95°	31.9	42.8	48.8	71.7	77.7
97.5°	43.8	56.7	63.7	84.6	90.6
100°	55.7	67.7	89.6	100.5	107.5
102.5°	65.7	74.7	105.5	127.4	131.4
105°	74.7	77.7	111.5	149.3	158.3



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CATALOG NUMBER: 4WSLA-75-L850-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	89.6	79.6	119.5	162.3	178.2
115°	92.6	78.6	118.5	163.3	179.2
117.5°	92.6	78.6	115.5	163.3	179.2
120°	90.6	79.6	111.5	161.3	178.2
122.5°	88.6	77.7	107.5	157.3	174.2
125°	85.6	75.7	102.5	150.3	169.2
127.5°	80.6	77.7	97.6	141.4	160.3
130°	76.7	78.6	91.6	132.4	151.3
132.5°	73.7	76.7	85.6	122.4	139.4
135°	69.7	75.7	82.6	111.5	128.4
137.5°	66.7	72.7	77.7	101.5	115.5
140°	63.7	70.7	72.7	88.6	100.5
142.5°	59.7	67.7	68.7	82.6	87.6
145°	56.7	65.7	71.7	76.7	81.6
147.5°	53.8	61.7	69.7	70.7	75.7
150°	52.8	57.7	66.7	67.7	69.7
152.5°	51.8	55.7	61.7	67.7	68.7
155°	51.8	54.8	58.7	63.7	64.7
157.5°	50.8	54.8	56.7	60.7	61.7
160°	50.8	53.8	55.7	58.7	59.7
162.5°	50.8	53.8	54.8	57.7	58.7
165°	50.8	52.8	54.8	56.7	56.7
167.5°	50.8	52.8	53.8	55.7	55.7
170°	50.8	51.8	53.8	54.8	54.8
172.5°	49.8	51.8	52.8	54.8	54.8
175°	49.8	50.8	51.8	52.8	53.8
177.5°	47.8	50.8	51.8	52.8	51.8
180°	48.8	48.8	48.8	48.8	48.8



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	81.6	78.6	115.5	157.3	170.2
110°	86.6	79.6	118.5	160.3	176.2



(END OF REPORT)