

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: P520625

Luminaire Tested: **4WSLA-75-L950-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: P520625
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-L950-UPL15-UNV-U
Description: 4 FOOT, 750 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 90 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

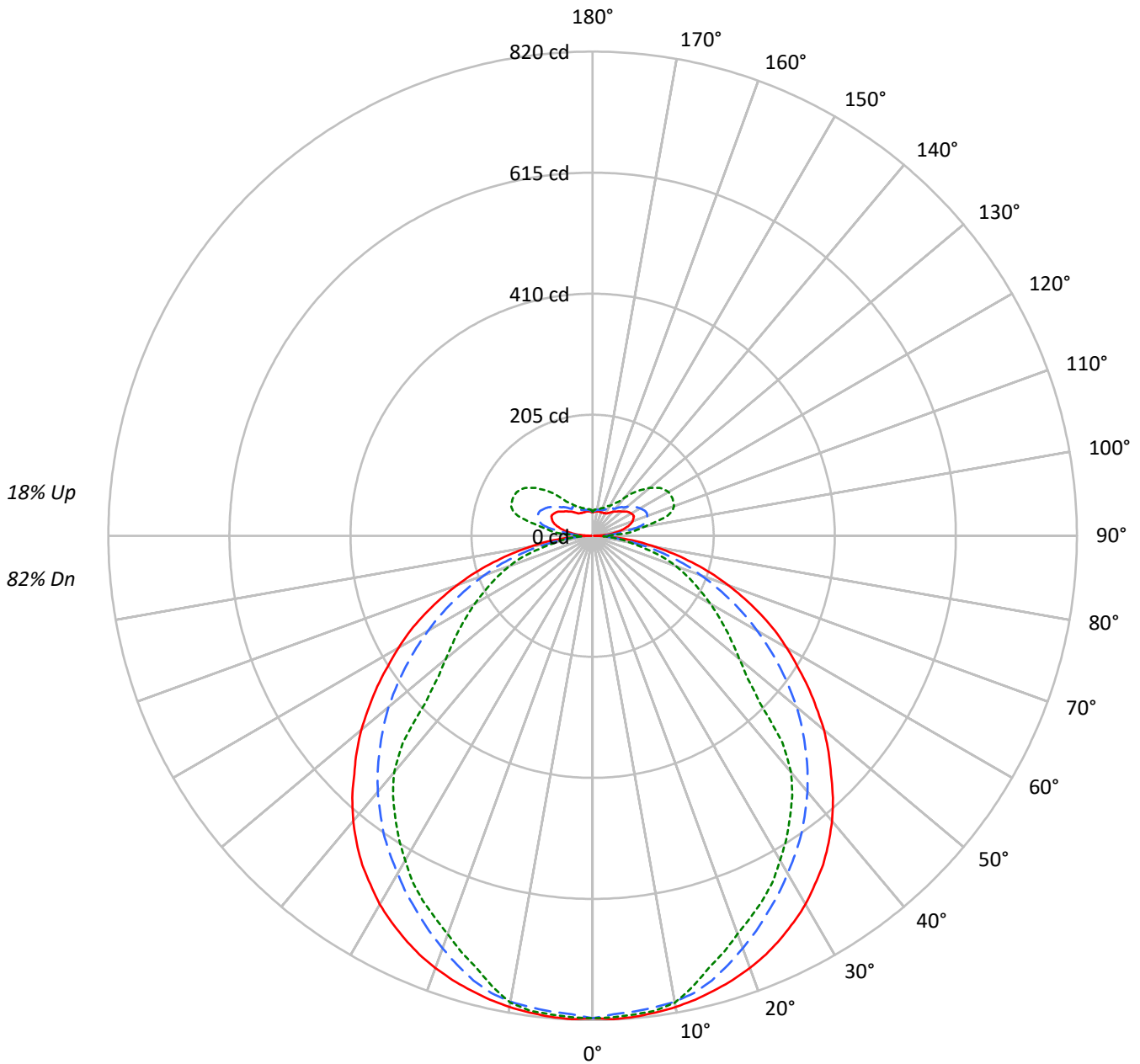
Lumens per Lamp: N/A
Luminaire Lumens: 2646.0 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

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°	4397	4397	4397
5°	4418	4369	4396
10°	4429	4379	4388
15°	4441	4344	4225
20°	4461	4257	4110
25°	4473	4173	4045
30°	4480	4104	3944
35°	4470	4051	3827
40°	4430	3976	3674
45°	4345	3879	3046
50°	4281	3774	2713
55°	4176	3623	2581
60°	4085	3461	2480
65°	3989	3272	2406
70°	3833	3064	2360
75°	3618	2809	2171
80°	3313	2362	1925
85°	2970	2044	1945



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.4	2.9
10°-20°	220.0	8.3
20°-30°	328.3	12.4
30°-40°	391.1	14.8
40°-50°	389.0	14.7
50°-60°	333.4	12.6
60°-70°	251.1	9.5
70°-80°	145.4	5.5
80°-90°	43.7	1.7
90°-100°	46.9	1.8
100°-110°	96.4	3.6
110°-120°	101.9	3.9
120°-130°	85.0	3.2
130°-140°	59.4	2.2
140°-150°	37.0	1.4
150°-160°	22.9	0.9
160°-170°	12.9	0.5
170°-180°	4.2	0.2
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0°-30°	625.6	23.6
0°-40°	1016.8	38.4
0°-60°	1739.3	65.7
0°-90°	2179.5	82.4
90°-120°	245.2	9.3
90°-150°	426.5	16.1
90°-180°	466.0	17.6
0°-180°	2646.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	817	817	817	817	817	
5°	818	815	809	814	814	78
15°	797	796	780	766	758	225
25°	753	742	703	685	681	347
35°	680	662	616	592	582	425
45°	571	557	510	459	400	441
55°	445	438	386	307	275	398
65°	313	306	257	200	189	310
75°	174	168	135	108	104	184
85°	48	42	33	32	32	51
90°	2	12	20	25	26	5
95°	26	36	41	60	65	25
105°	62	65	93	124	132	64
115°	77	66	99	136	149	75
125°	71	63	85	125	141	63
135°	58	63	69	93	107	45
145°	47	55	60	64	68	30
155°	43	46	49	53	54	20
165°	42	44	46	47	47	12
175°	41	42	43	44	45	4
180°	41	41	41	41	41	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	817.0	817.0	817.0	817.0	817.0
2.5°	819.5	817.8	811.2	817.8	816.2
5°	817.8	815.4	808.7	814.5	813.7
7.5°	814.5	812.9	805.4	812.0	811.2
10°	810.4	807.9	801.3	806.2	802.9
12.5°	804.6	802.9	793.0	788.8	782.2
15°	797.1	796.3	779.7	766.5	758.2
17.5°	788.8	785.5	762.3	746.6	739.1
20°	778.9	773.9	743.3	725.0	717.6
22.5°	767.3	759.8	724.2	706.8	699.3
25°	753.2	742.4	702.7	685.3	681.1
27.5°	737.5	725.0	682.8	665.4	660.4
30°	720.9	705.1	660.4	643.8	634.7
32.5°	700.2	685.3	638.9	619.8	609.9
35°	680.3	662.1	616.5	592.5	582.5
37.5°	656.3	638.0	590.8	566.8	555.2
40°	630.6	612.3	565.9	537.8	522.9
42.5°	602.4	585.8	538.6	504.6	475.6
45°	570.9	556.8	509.6	459.1	400.2
47.5°	541.9	528.7	480.6	415.1	354.6
50°	511.3	498.8	450.8	373.7	324.0
52.5°	477.3	468.2	418.4	338.1	298.3
55°	445.0	438.3	386.1	306.6	275.1
57.5°	411.0	404.4	353.8	276.8	251.9
60°	379.5	372.9	321.5	250.2	230.4
62.5°	348.0	338.9	290.0	224.6	208.0
65°	313.2	305.8	256.9	199.7	188.9
67.5°	278.4	271.8	226.2	176.5	169.0
70°	243.6	237.8	194.7	154.1	150.0
72.5°	209.6	202.2	166.6	131.7	130.1
75°	174.0	168.2	135.1	107.7	104.4
77.5°	140.0	135.1	106.1	82.0	79.5
80°	106.9	101.9	76.2	59.7	62.1
82.5°	78.7	72.1	51.4	46.4	48.9
85°	48.1	42.3	33.1	31.5	31.5
87.5°	16.6	15.7	14.9	17.4	18.2
90°	2.5	11.6	19.9	24.9	26.5
92.5°	14.1	20.7	27.3	32.3	34.0
95°	26.5	35.6	40.6	59.7	64.6
97.5°	36.5	47.2	53.0	70.4	75.4
100°	46.4	56.3	74.6	83.7	89.5
102.5°	54.7	62.1	87.8	106.1	109.4
105°	62.1	64.6	92.8	124.3	131.7



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CATALOG NUMBER: 4WSLA-75-L950-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	74.6	66.3	99.4	135.1	148.3
115°	77.1	65.5	98.6	135.9	149.2
117.5°	77.1	65.5	96.1	135.9	149.2
120°	75.4	66.3	92.8	134.2	148.3
122.5°	73.7	64.6	89.5	130.9	145.0
125°	71.3	63.0	85.3	125.1	140.9
127.5°	67.1	64.6	81.2	117.7	133.4
130°	63.8	65.5	76.2	110.2	125.9
132.5°	61.3	63.8	71.3	101.9	116.0
135°	58.0	63.0	68.8	92.8	106.9
137.5°	55.5	60.5	64.6	84.5	96.1
140°	53.0	58.8	60.5	73.7	83.7
142.5°	49.7	56.3	57.2	68.8	72.9
145°	47.2	54.7	59.7	63.8	67.9
147.5°	44.7	51.4	58.0	58.8	63.0
150°	43.9	48.1	55.5	56.3	58.0
152.5°	43.1	46.4	51.4	56.3	57.2
155°	43.1	45.6	48.9	53.0	53.9
157.5°	42.3	45.6	47.2	50.5	51.4
160°	42.3	44.7	46.4	48.9	49.7
162.5°	42.3	44.7	45.6	48.1	48.9
165°	42.3	43.9	45.6	47.2	47.2
167.5°	42.3	43.9	44.7	46.4	46.4
170°	42.3	43.1	44.7	45.6	45.6
172.5°	41.4	43.1	43.9	45.6	45.6
175°	41.4	42.3	43.1	43.9	44.7
177.5°	39.8	42.3	43.1	43.9	43.1
180°	40.6	40.6	40.6	40.6	40.6



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	67.9	65.5	96.1	130.9	141.7
110°	72.1	66.3	98.6	133.4	146.7



(END OF REPORT)