

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: P520616

Luminaire Tested: **4WSLA-75-L930-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: P520616
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-L930-UPL15-UNV-U
Description: 4 FOOT, 750 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 90 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

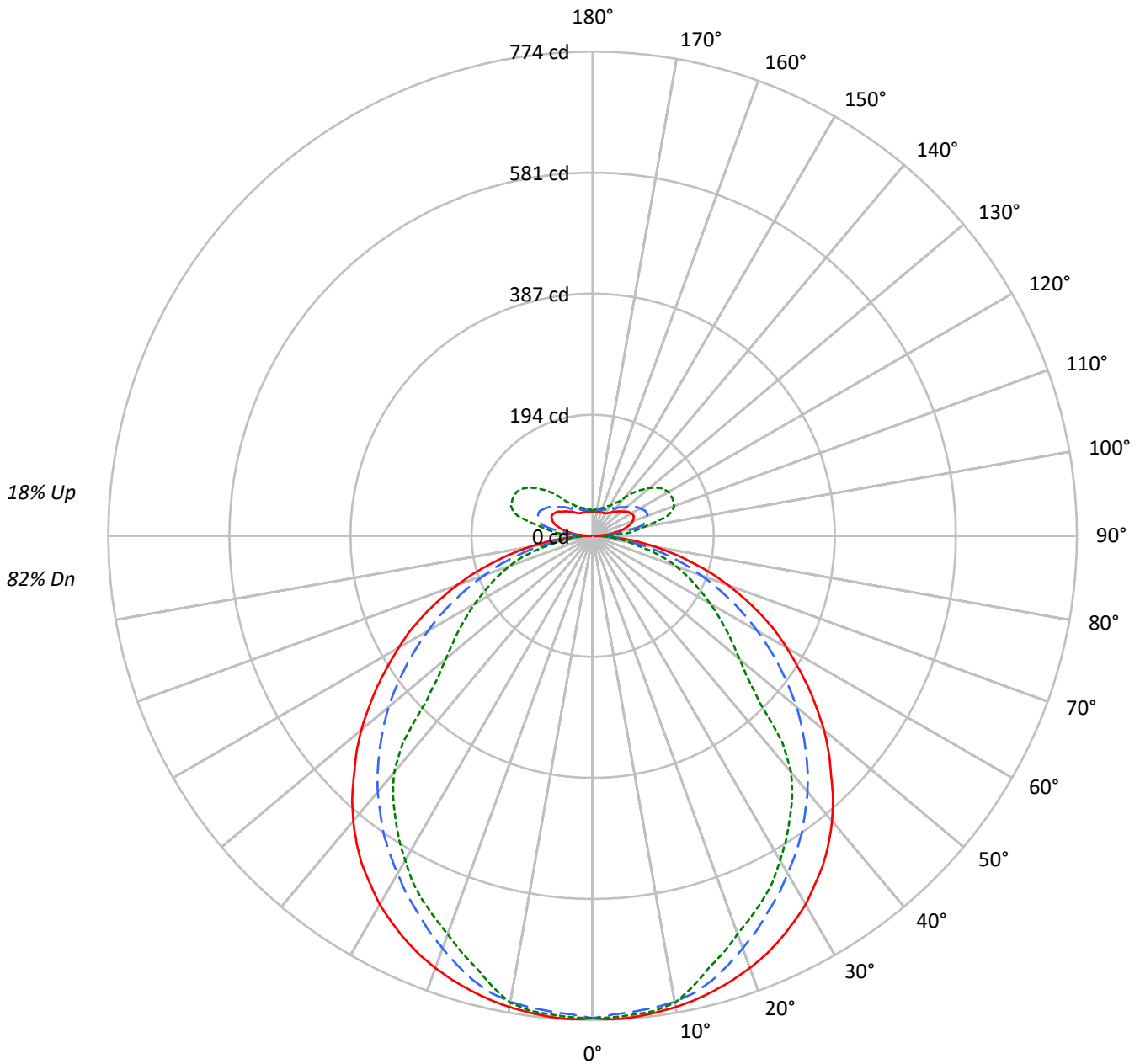
Lumens per Lamp: N/A
Luminaire Lumens: 2498.0 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

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°	4151	4151	4151
5°	4171	4125	4150
10°	4181	4134	4142
15°	4193	4101	3988
20°	4211	4019	3880
25°	4223	3939	3818
30°	4230	3875	3724
35°	4219	3824	3613
40°	4182	3754	3468
45°	4102	3662	2876
50°	4042	3563	2561
55°	3942	3420	2437
60°	3857	3267	2341
65°	3766	3088	2272
70°	3619	2892	2228
75°	3417	2651	2050
80°	3127	2232	1819
85°	2803	1933	1834



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.1	2.9
10°-20°	207.7	8.3
20°-30°	309.9	12.4
30°-40°	369.2	14.8
40°-50°	367.3	14.7
50°-60°	314.8	12.6
60°-70°	237.1	9.5
70°-80°	137.3	5.5
80°-90°	41.3	1.7
90°-100°	44.3	1.8
100°-110°	91.0	3.6
110°-120°	96.2	3.9
120°-130°	80.3	3.2
130°-140°	56.1	2.2
140°-150°	34.9	1.4
150°-160°	21.6	0.9
160°-170°	12.2	0.5
170°-180°	3.9	0.2
0°-30°	590.7	23.6
0°-40°	959.9	38.4
0°-60°	1642.0	65.7
0°-90°	2057.6	82.4
90°-120°	231.5	9.3
90°-150°	402.7	16.1
90°-180°	440.0	17.6
0°-180°	2498.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	771	771	771	771	771	
5°	772	770	764	769	768	73
15°	752	752	736	724	716	213
25°	711	701	663	647	643	328
35°	642	625	582	559	550	401
45°	539	526	481	433	378	417
55°	420	414	364	289	260	376
65°	296	289	242	188	178	292
75°	164	159	128	102	99	174
85°	45	40	31	30	30	48
90°	2	11	19	24	25	5
95°	25	34	38	56	61	24
105°	59	61	88	117	124	61
115°	73	62	93	128	141	71
125°	67	60	81	118	133	60
135°	55	60	65	88	101	43
145°	45	52	56	60	64	28
155°	41	43	46	50	51	19
165°	40	42	43	45	45	11
175°	39	40	41	42	42	4
180°	38	38	38	38	38	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	771.3	771.3	771.3	771.3	771.3
2.5°	773.7	772.1	765.8	772.1	770.5
5°	772.1	769.7	763.5	769.0	768.2
7.5°	769.0	767.4	760.4	766.6	765.8
10°	765.1	762.7	756.5	761.1	758.0
12.5°	759.6	758.0	748.6	744.7	738.5
15°	752.5	751.8	736.1	723.6	715.8
17.5°	744.7	741.6	719.7	704.8	697.8
20°	735.3	730.6	701.7	684.5	677.4
22.5°	724.4	717.3	683.7	667.3	660.2
25°	711.1	700.9	663.4	646.9	643.0
27.5°	696.2	684.5	644.6	628.2	623.5
30°	680.6	665.7	623.5	607.8	599.2
32.5°	661.0	646.9	603.1	585.1	575.7
35°	642.2	625.0	582.0	559.3	549.9
37.5°	619.6	602.3	557.8	535.1	524.1
40°	595.3	578.1	534.3	507.7	493.6
42.5°	568.7	553.1	508.5	476.4	449.0
45°	539.0	525.7	481.1	433.4	377.8
47.5°	511.6	499.1	453.7	391.9	334.8
50°	482.7	470.9	425.6	352.8	305.9
52.5°	450.6	442.0	395.0	319.2	281.6
55°	420.1	413.8	364.5	289.4	259.7
57.5°	388.0	381.7	334.0	261.3	237.8
60°	358.3	352.0	303.5	236.2	217.5
62.5°	328.6	319.9	273.8	212.0	196.3
65°	295.7	288.7	242.5	188.5	178.4
67.5°	262.8	256.6	213.6	166.6	159.6
70°	230.0	224.5	183.8	145.5	141.6
72.5°	197.9	190.9	157.2	124.4	122.8
75°	164.3	158.8	127.5	101.7	98.6
77.5°	132.2	127.5	100.1	77.4	75.1
80°	100.9	96.2	72.0	56.3	58.7
82.5°	74.3	68.1	48.5	43.8	46.2
85°	45.4	39.9	31.3	29.7	29.7
87.5°	15.6	14.9	14.1	16.4	17.2
90°	2.3	11.0	18.8	23.5	25.0
92.5°	13.3	19.6	25.8	30.5	32.1
95°	25.0	33.6	38.3	56.3	61.0
97.5°	34.4	44.6	50.1	66.5	71.2
100°	43.8	53.2	70.4	79.0	84.5
102.5°	51.6	58.7	82.9	100.1	103.3
105°	58.7	61.0	87.6	117.3	124.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	70.4	62.6	93.9	127.5	140.0
115°	72.8	61.8	93.1	128.3	140.8
117.5°	72.8	61.8	90.7	128.3	140.8
120°	71.2	62.6	87.6	126.7	140.0
122.5°	69.6	61.0	84.5	123.6	136.9
125°	67.3	59.5	80.6	118.1	133.0
127.5°	63.4	61.0	76.7	111.1	125.9
130°	60.2	61.8	72.0	104.0	118.9
132.5°	57.9	60.2	67.3	96.2	109.5
135°	54.8	59.5	64.9	87.6	100.9
137.5°	52.4	57.1	61.0	79.8	90.7
140°	50.1	55.5	57.1	69.6	79.0
142.5°	46.9	53.2	54.0	64.9	68.8
145°	44.6	51.6	56.3	60.2	64.1
147.5°	42.2	48.5	54.8	55.5	59.5
150°	41.5	45.4	52.4	53.2	54.8
152.5°	40.7	43.8	48.5	53.2	54.0
155°	40.7	43.0	46.2	50.1	50.8
157.5°	39.9	43.0	44.6	47.7	48.5
160°	39.9	42.2	43.8	46.2	46.9
162.5°	39.9	42.2	43.0	45.4	46.2
165°	39.9	41.5	43.0	44.6	44.6
167.5°	39.9	41.5	42.2	43.8	43.8
170°	39.9	40.7	42.2	43.0	43.0
172.5°	39.1	40.7	41.5	43.0	43.0
175°	39.1	39.9	40.7	41.5	42.2
177.5°	37.5	39.9	40.7	41.5	40.7
180°	38.3	38.3	38.3	38.3	38.3



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	64.1	61.8	90.7	123.6	133.8
110°	68.1	62.6	93.1	125.9	138.5



(END OF REPORT)