

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: P520619

Luminaire Tested: **4WSLA-75-L935-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: P520619
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-L935-UPL15-UNV-U
Description: 4 FOOT, 750 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 90 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

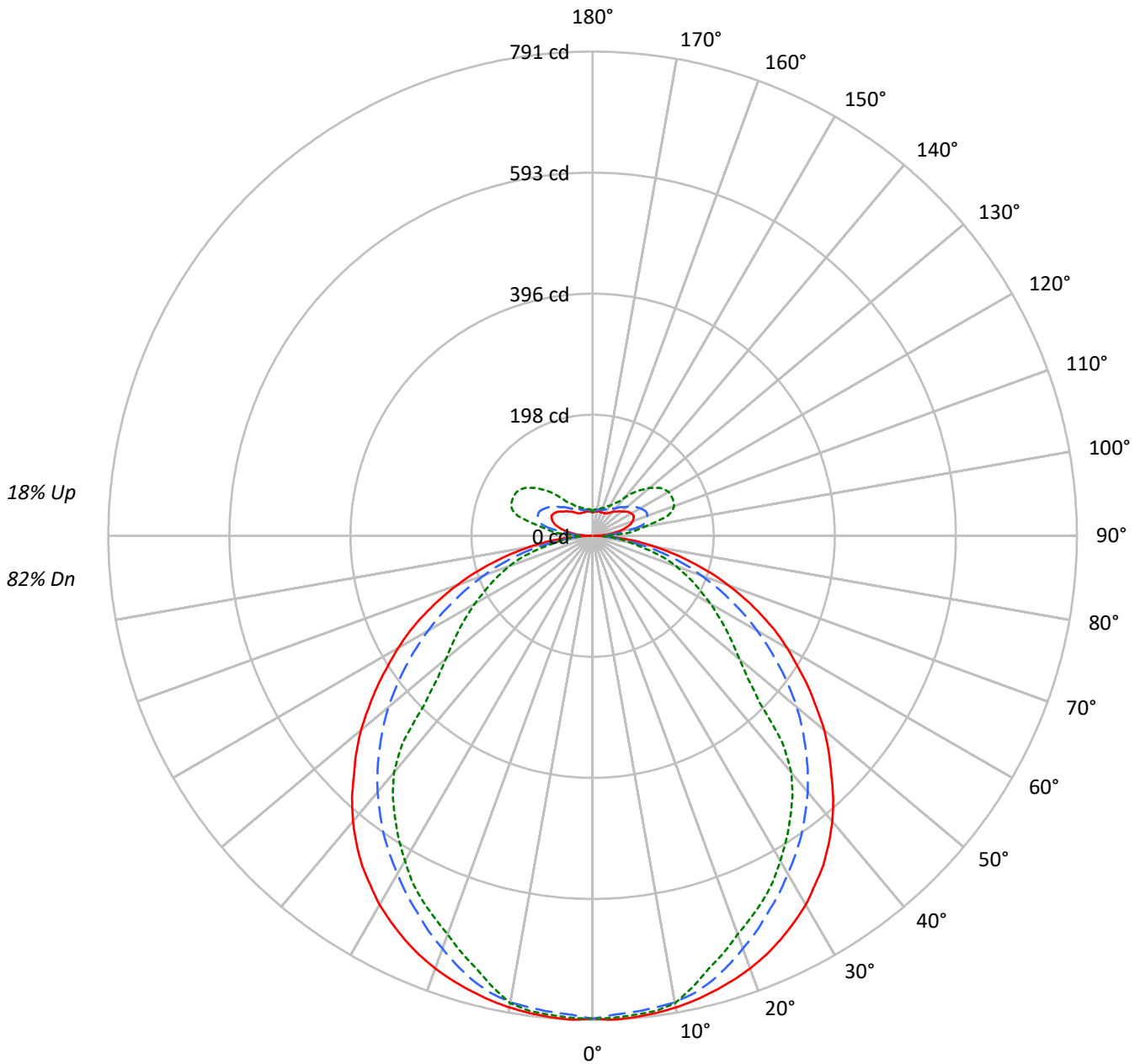
Lumens per Lamp: N/A
Luminaire Lumens: 2554.9 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

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°	4246	4246	4246
5°	4266	4219	4245
10°	4276	4228	4237
15°	4289	4195	4079
20°	4308	4111	3968
25°	4319	4029	3906
30°	4326	3963	3809
35°	4316	3911	3696
40°	4278	3840	3547
45°	4196	3745	2942
50°	4134	3645	2619
55°	4032	3499	2492
60°	3945	3341	2394
65°	3851	3158	2323
70°	3701	2958	2279
75°	3493	2712	2096
80°	3199	2281	1860
85°	2865	1976	1877



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.8	2.9
10°-20°	212.4	8.3
20°-30°	317.0	12.4
30°-40°	377.7	14.8
40°-50°	375.7	14.7
50°-60°	322.0	12.6
60°-70°	242.4	9.5
70°-80°	140.4	5.5
80°-90°	42.2	1.7
90°-100°	45.3	1.8
100°-110°	93.0	3.6
110°-120°	98.4	3.9
120°-130°	82.1	3.2
130°-140°	57.3	2.2
140°-150°	35.7	1.4
150°-160°	22.1	0.9
160°-170°	12.5	0.5
170°-180°	4.0	0.2
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0°-30°	604.1	23.6
0°-40°	981.8	38.4
0°-60°	1679.5	65.7
0°-90°	2104.5	82.4
90°-120°	236.7	9.3
90°-150°	411.8	16.1
90°-180°	450.0	17.6
0°-180°	2554.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	789	789	789	789	789	
5°	790	787	781	786	786	75
15°	770	769	753	740	732	218
25°	727	717	678	662	658	335
35°	657	639	595	572	562	410
45°	551	538	492	443	386	426
55°	430	423	373	296	266	384
65°	302	295	248	193	182	299
75°	168	162	130	104	101	178
85°	46	41	32	30	30	49
90°	2	11	19	24	26	5
95°	26	34	39	58	62	24
105°	60	62	90	120	127	62
115°	74	63	95	131	144	72
125°	69	61	82	121	136	61
135°	56	61	66	90	103	44
145°	46	53	58	62	66	29
155°	42	44	47	51	52	19
165°	41	42	44	46	46	12
175°	40	41	42	42	43	4
180°	39	39	39	39	39	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	788.9	788.9	788.9	788.9	788.9
2.5°	791.3	789.7	783.3	789.7	788.1
5°	789.7	787.3	780.9	786.5	785.7
7.5°	786.5	784.9	777.7	784.1	783.3
10°	782.5	780.1	773.7	778.5	775.3
12.5°	776.9	775.3	765.7	761.7	755.3
15°	769.7	768.9	752.9	740.1	732.1
17.5°	761.7	758.5	736.1	720.9	713.7
20°	752.1	747.3	717.7	700.1	692.9
22.5°	740.9	733.7	699.3	682.5	675.3
25°	727.3	716.9	678.5	661.7	657.7
27.5°	712.1	700.1	659.3	642.5	637.7
30°	696.1	680.9	637.7	621.7	612.9
32.5°	676.1	661.7	616.9	598.5	588.9
35°	656.9	639.3	595.3	572.1	562.5
37.5°	633.7	616.1	570.5	547.3	536.1
40°	608.9	591.3	546.5	519.3	504.9
42.5°	581.7	565.7	520.1	487.3	459.3
45°	551.3	537.7	492.1	443.3	386.5
47.5°	523.3	510.5	464.1	400.9	342.4
50°	493.7	481.7	435.3	360.9	312.8
52.5°	460.9	452.1	404.1	326.4	288.0
55°	429.7	423.3	372.9	296.0	265.6
57.5°	396.9	390.5	341.6	267.2	243.2
60°	366.5	360.1	310.4	241.6	222.4
62.5°	336.0	327.2	280.0	216.8	200.8
65°	302.4	295.2	248.0	192.8	182.4
67.5°	268.8	262.4	218.4	170.4	163.2
70°	235.2	229.6	188.0	148.8	144.8
72.5°	202.4	195.2	160.8	127.2	125.6
75°	168.0	162.4	130.4	104.0	100.8
77.5°	135.2	130.4	102.4	79.2	76.8
80°	103.2	98.4	73.6	57.6	60.0
82.5°	76.0	69.6	49.6	44.8	47.2
85°	46.4	40.8	32.0	30.4	30.4
87.5°	16.0	15.2	14.4	16.8	17.6
90°	2.4	11.2	19.2	24.0	25.6
92.5°	13.6	20.0	26.4	31.2	32.8
95°	25.6	34.4	39.2	57.6	62.4
97.5°	35.2	45.6	51.2	68.0	72.8
100°	44.8	54.4	72.0	80.8	86.4
102.5°	52.8	60.0	84.8	102.4	105.6
105°	60.0	62.4	89.6	120.0	127.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	72.0	64.0	96.0	130.4	143.2
115°	74.4	63.2	95.2	131.2	144.0
117.5°	74.4	63.2	92.8	131.2	144.0
120°	72.8	64.0	89.6	129.6	143.2
122.5°	71.2	62.4	86.4	126.4	140.0
125°	68.8	60.8	82.4	120.8	136.0
127.5°	64.8	62.4	78.4	113.6	128.8
130°	61.6	63.2	73.6	106.4	121.6
132.5°	59.2	61.6	68.8	98.4	112.0
135°	56.0	60.8	66.4	89.6	103.2
137.5°	53.6	58.4	62.4	81.6	92.8
140°	51.2	56.8	58.4	71.2	80.8
142.5°	48.0	54.4	55.2	66.4	70.4
145°	45.6	52.8	57.6	61.6	65.6
147.5°	43.2	49.6	56.0	56.8	60.8
150°	42.4	46.4	53.6	54.4	56.0
152.5°	41.6	44.8	49.6	54.4	55.2
155°	41.6	44.0	47.2	51.2	52.0
157.5°	40.8	44.0	45.6	48.8	49.6
160°	40.8	43.2	44.8	47.2	48.0
162.5°	40.8	43.2	44.0	46.4	47.2
165°	40.8	42.4	44.0	45.6	45.6
167.5°	40.8	42.4	43.2	44.8	44.8
170°	40.8	41.6	43.2	44.0	44.0
172.5°	40.0	41.6	42.4	44.0	44.0
175°	40.0	40.8	41.6	42.4	43.2
177.5°	38.4	40.8	41.6	42.4	41.6
180°	39.2	39.2	39.2	39.2	39.2



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	65.6	63.2	92.8	126.4	136.8
110°	69.6	64.0	95.2	128.8	141.6



(END OF REPORT)