

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: P520607

Luminaire Tested: **4WSLA-75-L835-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: P520607
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-L835-UPL15-UNV-U
Description: 4 FOOT, 750 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

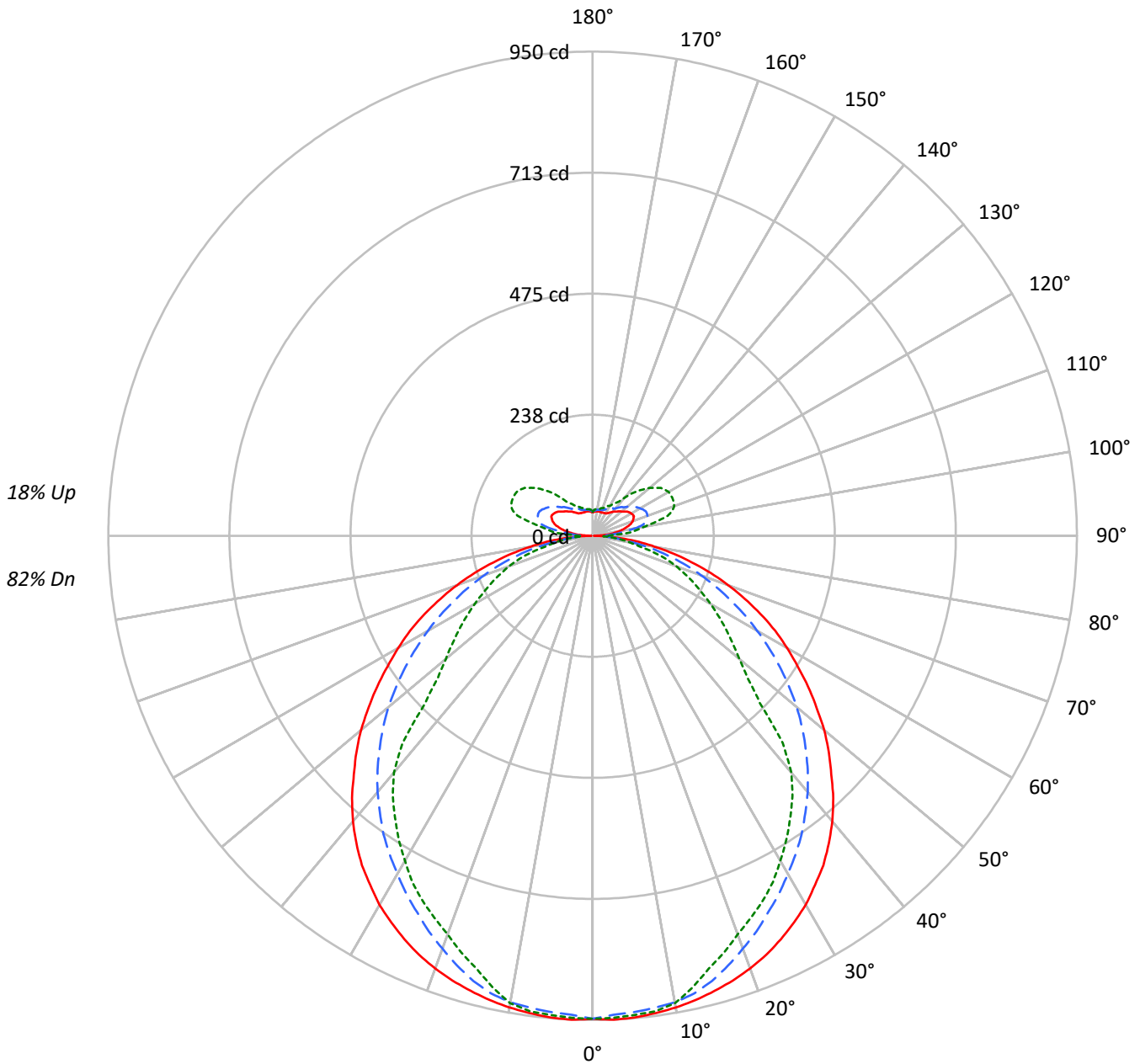
Lumens per Lamp: N/A
Luminaire Lumens: 3069.0 lumens
Efficiency: N/A
Efficacy: 132.3 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

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°	5100	5100	5100
5°	5125	5068	5099
10°	5137	5079	5090
15°	5152	5039	4900
20°	5174	4938	4767
25°	5188	4840	4691
30°	5196	4760	4575
35°	5184	4698	4439
40°	5139	4612	4260
45°	5040	4499	3533
50°	4965	4377	3147
55°	4843	4203	2994
60°	4738	4014	2876
65°	4627	3794	2790
70°	4447	3555	2738
75°	4196	3258	2518
80°	3843	2740	2235
85°	3440	2371	2254



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.8	2.9
10°-20°	255.1	8.3
20°-30°	380.7	12.4
30°-40°	453.7	14.8
40°-50°	451.2	14.7
50°-60°	386.7	12.6
60°-70°	291.3	9.5
70°-80°	168.7	5.5
80°-90°	50.7	1.7
90°-100°	54.4	1.8
100°-110°	111.8	3.6
110°-120°	118.2	3.9
120°-130°	98.6	3.2
130°-140°	68.9	2.2
140°-150°	42.9	1.4
150°-160°	26.6	0.9
160°-170°	15.0	0.5
170°-180°	4.8	0.2
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0°-30°	725.7	23.6
0°-40°	1179.3	38.4
0°-60°	2017.3	65.7
0°-90°	2527.9	82.4
90°-120°	284.4	9.3
90°-150°	494.7	16.1
90°-180°	541.0	17.6
0°-180°	3069.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	948	948	948	948	948	
5°	949	946	938	945	944	90
15°	925	924	904	889	879	261
25°	874	861	815	795	790	403
35°	789	768	715	687	676	493
45°	662	646	591	532	464	512
55°	516	508	448	356	319	461
65°	363	355	298	232	219	359
75°	202	195	157	125	121	214
85°	56	49	38	36	36	59
90°	3	14	23	29	31	6
95°	31	41	47	69	75	29
105°	72	75	108	144	153	75
115°	89	76	114	158	173	87
125°	83	73	99	145	163	73
135°	67	73	80	108	124	53
145°	55	63	69	74	79	35
155°	50	53	57	62	62	23
165°	49	51	53	55	55	14
175°	48	49	50	51	52	5
180°	47	47	47	47	47	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	947.6	947.6	947.6	947.6	947.6
2.5°	950.5	948.6	940.9	948.6	946.7
5°	948.6	945.7	938.0	944.7	943.8
7.5°	944.7	942.8	934.2	941.9	940.9
10°	939.9	937.1	929.4	935.1	931.3
12.5°	933.2	931.3	919.8	914.9	907.3
15°	924.6	923.6	904.4	889.0	879.4
17.5°	914.9	911.1	884.2	865.9	857.3
20°	903.4	897.6	862.1	840.9	832.3
22.5°	890.0	881.3	840.0	819.8	811.1
25°	873.6	861.1	815.0	794.8	790.0
27.5°	855.4	840.9	791.9	771.7	766.0
30°	836.1	817.9	766.0	746.8	736.2
32.5°	812.1	794.8	741.0	718.9	707.4
35°	789.0	767.9	715.0	687.2	675.6
37.5°	761.2	740.0	685.2	657.4	643.9
40°	731.4	710.2	656.4	623.7	606.4
42.5°	698.7	679.5	624.7	585.3	551.7
45°	662.2	645.8	591.1	532.4	464.2
47.5°	628.5	613.2	557.4	481.5	411.3
50°	593.0	578.6	522.8	433.4	375.8
52.5°	553.6	543.0	485.3	392.1	346.0
55°	516.1	508.4	447.9	355.6	319.1
57.5°	476.7	469.0	410.4	321.0	292.2
60°	440.2	432.5	372.9	290.2	267.2
62.5°	403.7	393.1	336.4	260.5	241.2
65°	363.3	354.6	297.9	231.6	219.1
67.5°	322.9	315.2	262.4	204.7	196.1
70°	282.6	275.8	225.9	178.8	174.0
72.5°	243.2	234.5	193.2	152.8	150.9
75°	201.8	195.1	156.7	124.9	121.1
77.5°	162.4	156.7	123.0	95.1	92.3
80°	124.0	118.2	88.4	69.2	72.1
82.5°	91.3	83.6	59.6	53.8	56.7
85°	55.7	49.0	38.4	36.5	36.5
87.5°	19.2	18.3	17.3	20.2	21.1
90°	2.9	13.5	23.1	28.8	30.8
92.5°	16.3	24.0	31.7	37.5	39.4
95°	30.8	41.3	47.1	69.2	75.0
97.5°	42.3	54.8	61.5	81.7	87.5
100°	53.8	65.4	86.5	97.1	103.8
102.5°	63.4	72.1	101.9	123.0	126.9
105°	72.1	75.0	107.6	144.2	152.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	86.5	76.9	115.3	156.7	172.0
115°	89.4	75.9	114.4	157.6	173.0
117.5°	89.4	75.9	111.5	157.6	173.0
120°	87.5	76.9	107.6	155.7	172.0
122.5°	85.5	75.0	103.8	151.9	168.2
125°	82.7	73.0	99.0	145.1	163.4
127.5°	77.8	75.0	94.2	136.5	154.7
130°	74.0	75.9	88.4	127.8	146.1
132.5°	71.1	74.0	82.7	118.2	134.6
135°	67.3	73.0	79.8	107.6	124.0
137.5°	64.4	70.2	75.0	98.0	111.5
140°	61.5	68.2	70.2	85.5	97.1
142.5°	57.7	65.4	66.3	79.8	84.6
145°	54.8	63.4	69.2	74.0	78.8
147.5°	51.9	59.6	67.3	68.2	73.0
150°	50.9	55.7	64.4	65.4	67.3
152.5°	50.0	53.8	59.6	65.4	66.3
155°	50.0	52.9	56.7	61.5	62.5
157.5°	49.0	52.9	54.8	58.6	59.6
160°	49.0	51.9	53.8	56.7	57.7
162.5°	49.0	51.9	52.9	55.7	56.7
165°	49.0	50.9	52.9	54.8	54.8
167.5°	49.0	50.9	51.9	53.8	53.8
170°	49.0	50.0	51.9	52.9	52.9
172.5°	48.1	50.0	50.9	52.9	52.9
175°	48.1	49.0	50.0	50.9	51.9
177.5°	46.1	49.0	50.0	50.9	50.0
180°	47.1	47.1	47.1	47.1	47.1



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	78.8	75.9	111.5	151.9	164.3
110°	83.6	76.9	114.4	154.7	170.1



(END OF REPORT)