

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: P520679

Luminaire Tested: **8WSLA-150-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: P520679
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: 8WSLA-150-L835-UPL15-UNV-U
Description: 8 FOOT, 3000 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

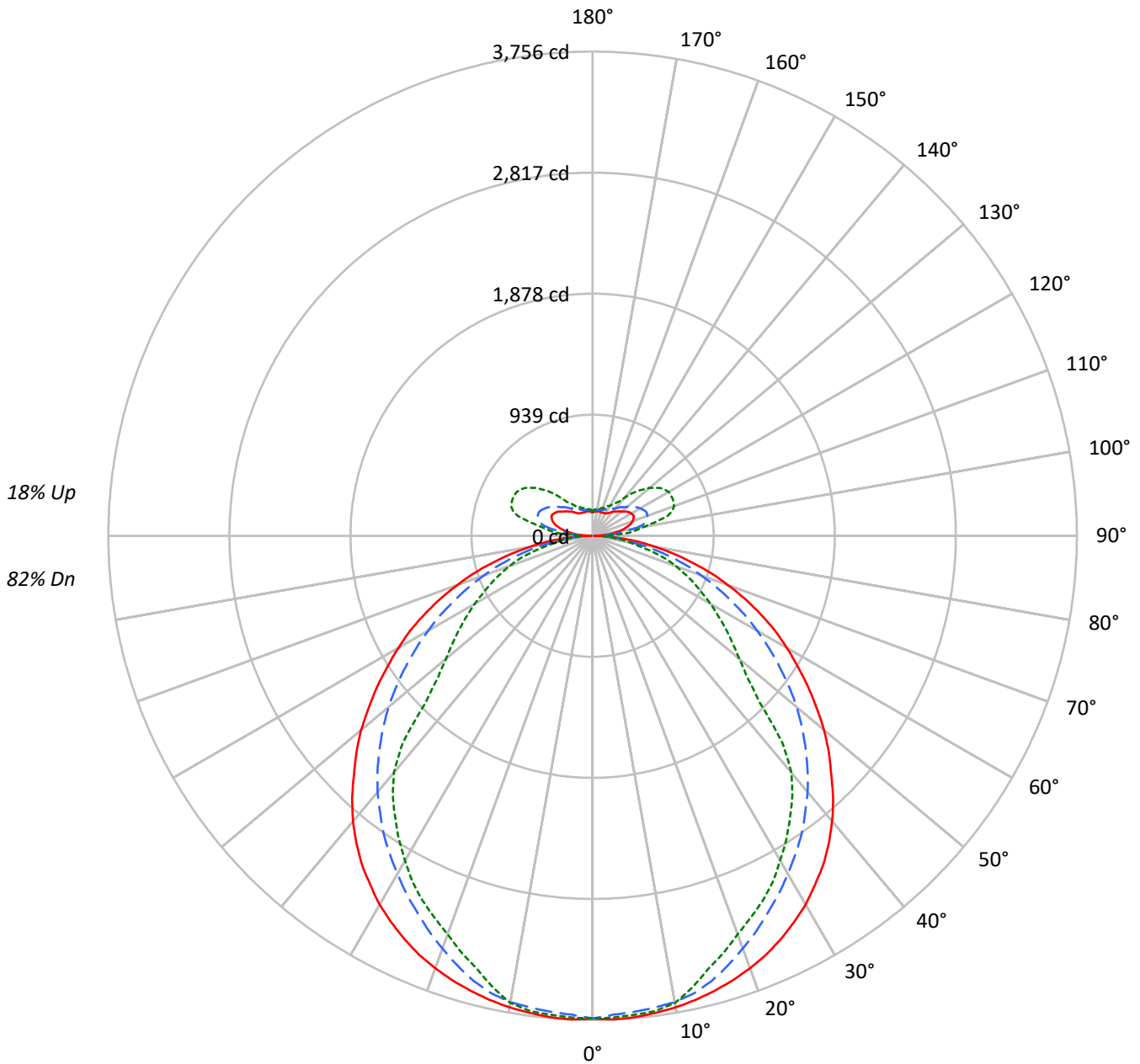
Lumens per Lamp: N/A
Luminaire Lumens: 12128.0 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 93.6
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°	10077	10077	10077
5°	10126	10013	10075
10°	10150	10035	10056
15°	10179	9957	9681
20°	10224	9756	9419
25°	10250	9563	9269
30°	10267	9406	9040
35°	10243	9283	8771
40°	10153	9112	8418
45°	9959	8889	6981
50°	9810	8650	6217
55°	9568	8303	5916
60°	9362	7931	5682
65°	9141	7497	5514
70°	8785	7022	5408
75°	8293	6437	4975
80°	7592	5415	4413
85°	6802	4690	4455



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.9	2.9
10°-20°	1008.2	8.3
20°-30°	1504.6	12.4
30°-40°	1792.7	14.8
40°-50°	1783.2	14.7
50°-60°	1528.3	12.6
60°-70°	1151.0	9.5
70°-80°	666.6	5.5
80°-90°	200.3	1.7
90°-100°	215.1	1.8
100°-110°	441.7	3.6
110°-120°	467.0	3.9
120°-130°	389.6	3.2
130°-140°	272.2	2.2
140°-150°	169.4	1.4
150°-160°	105.0	0.9
160°-170°	59.1	0.5
170°-180°	19.1	0.2
0°-30°	2867.7	23.6
0°-40°	4660.4	38.4
0°-60°	7971.9	65.7
0°-90°	9989.8	82.4
90°-120°	1123.8	9.3
90°-150°	1954.9	16.1
90°-180°	2138.0	17.6
0°-180°	12128.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3745	3745	3745	3745	3745	
5°	3749	3737	3707	3733	3730	357
15°	3654	3650	3574	3513	3475	1033
25°	3452	3403	3221	3141	3122	1592
35°	3118	3035	2826	2716	2670	1948
45°	2617	2552	2336	2104	1834	2023
55°	2040	2009	1770	1405	1261	1823
65°	1436	1401	1177	915	866	1419
75°	798	771	619	494	478	845
85°	220	194	152	144	144	235
90°	11	53	91	114	122	22
95°	122	163	186	274	296	116
105°	285	296	425	570	604	295
115°	353	300	452	623	684	344
125°	327	289	391	574	646	290
135°	266	289	315	425	490	208
145°	216	251	274	292	311	137
155°	198	209	224	243	247	91
165°	194	201	209	216	216	55
175°	190	194	198	201	205	18
180°	186	186	186	186	186	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3744.8	3744.8	3744.8	3744.8	3744.8
2.5°	3756.2	3748.6	3718.2	3748.6	3741.0
5°	3748.6	3737.2	3706.8	3733.4	3729.6
7.5°	3733.4	3725.8	3691.6	3722.0	3718.2
10°	3714.4	3703.0	3672.6	3695.4	3680.2
12.5°	3687.8	3680.2	3634.6	3615.7	3585.3
15°	3653.6	3649.8	3573.9	3513.1	3475.1
17.5°	3615.7	3600.5	3494.1	3422.0	3387.8
20°	3570.1	3547.3	3406.8	3323.2	3289.0
22.5°	3516.9	3482.7	3319.4	3239.7	3205.5
25°	3452.3	3403.0	3220.7	3140.9	3121.9
27.5°	3380.2	3323.2	3129.5	3049.8	3027.0
30°	3304.2	3232.1	3027.0	2951.0	2909.2
32.5°	3209.3	3140.9	2928.2	2840.9	2795.3
35°	3118.1	3034.6	2825.7	2715.5	2670.0
37.5°	3008.0	2924.4	2707.9	2597.8	2544.6
40°	2890.2	2806.7	2594.0	2464.9	2396.5
42.5°	2761.1	2685.2	2468.7	2313.0	2180.0
45°	2616.8	2552.2	2335.7	2104.1	1834.4
47.5°	2483.9	2423.1	2202.8	1902.8	1625.5
50°	2343.3	2286.4	2066.1	1712.9	1485.0
52.5°	2187.6	2145.8	1918.0	1549.6	1367.3
55°	2039.5	2009.1	1769.8	1405.2	1260.9
57.5°	1883.8	1853.4	1621.7	1268.5	1154.6
60°	1739.5	1709.1	1473.6	1147.0	1055.8
62.5°	1595.1	1553.4	1329.3	1029.2	953.3
65°	1435.6	1401.4	1177.4	915.3	865.9
67.5°	1276.1	1245.7	1036.8	809.0	774.8
70°	1116.6	1090.0	892.5	706.4	687.4
72.5°	960.9	926.7	763.4	603.9	596.3
75°	797.6	771.0	619.1	493.7	478.5
77.5°	641.9	619.1	486.1	376.0	364.6
80°	489.9	467.1	349.4	273.5	284.8
82.5°	360.8	330.4	235.5	212.7	224.1
85°	220.3	193.7	151.9	144.3	144.3
87.5°	76.0	72.2	68.4	79.8	83.6
90°	11.4	53.2	91.2	113.9	121.5
92.5°	64.6	94.9	125.3	148.1	155.7
95°	121.5	163.3	186.1	273.5	296.2
97.5°	167.1	216.5	243.1	322.8	345.6
100°	212.7	258.3	341.8	383.6	410.2
102.5°	250.7	284.8	402.6	486.1	501.3
105°	284.8	296.2	425.4	569.7	603.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	341.8	303.8	455.8	619.1	679.8
115°	353.2	300.0	452.0	622.9	683.6
117.5°	353.2	300.0	440.6	622.9	683.6
120°	345.6	303.8	425.4	615.3	679.8
122.5°	338.0	296.2	410.2	600.1	664.6
125°	326.6	288.6	391.2	573.5	645.7
127.5°	307.6	296.2	372.2	539.3	611.5
130°	292.4	300.0	349.4	505.1	577.3
132.5°	281.0	292.4	326.6	467.1	531.7
135°	265.9	288.6	315.2	425.4	489.9
137.5°	254.5	277.3	296.2	387.4	440.6
140°	243.1	269.7	277.3	338.0	383.6
142.5°	227.9	258.3	262.1	315.2	334.2
145°	216.5	250.7	273.5	292.4	311.4
147.5°	205.1	235.5	265.9	269.7	288.6
150°	201.3	220.3	254.5	258.3	265.9
152.5°	197.5	212.7	235.5	258.3	262.1
155°	197.5	208.9	224.1	243.1	246.9
157.5°	193.7	208.9	216.5	231.7	235.5
160°	193.7	205.1	212.7	224.1	227.9
162.5°	193.7	205.1	208.9	220.3	224.1
165°	193.7	201.3	208.9	216.5	216.5
167.5°	193.7	201.3	205.1	212.7	212.7
170°	193.7	197.5	205.1	208.9	208.9
172.5°	189.9	197.5	201.3	208.9	208.9
175°	189.9	193.7	197.5	201.3	205.1
177.5°	182.3	193.7	197.5	201.3	197.5
180°	186.1	186.1	186.1	186.1	186.1



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	311.4	300.0	440.6	600.1	649.5
110°	330.4	303.8	452.0	611.5	672.2



(END OF REPORT)