

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: P520718

Luminaire Tested: **8WSLA-175-L940-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: P520718
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-175-L940-UPL15-UNV-U
Description: 8 FOOT, 3500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 90 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

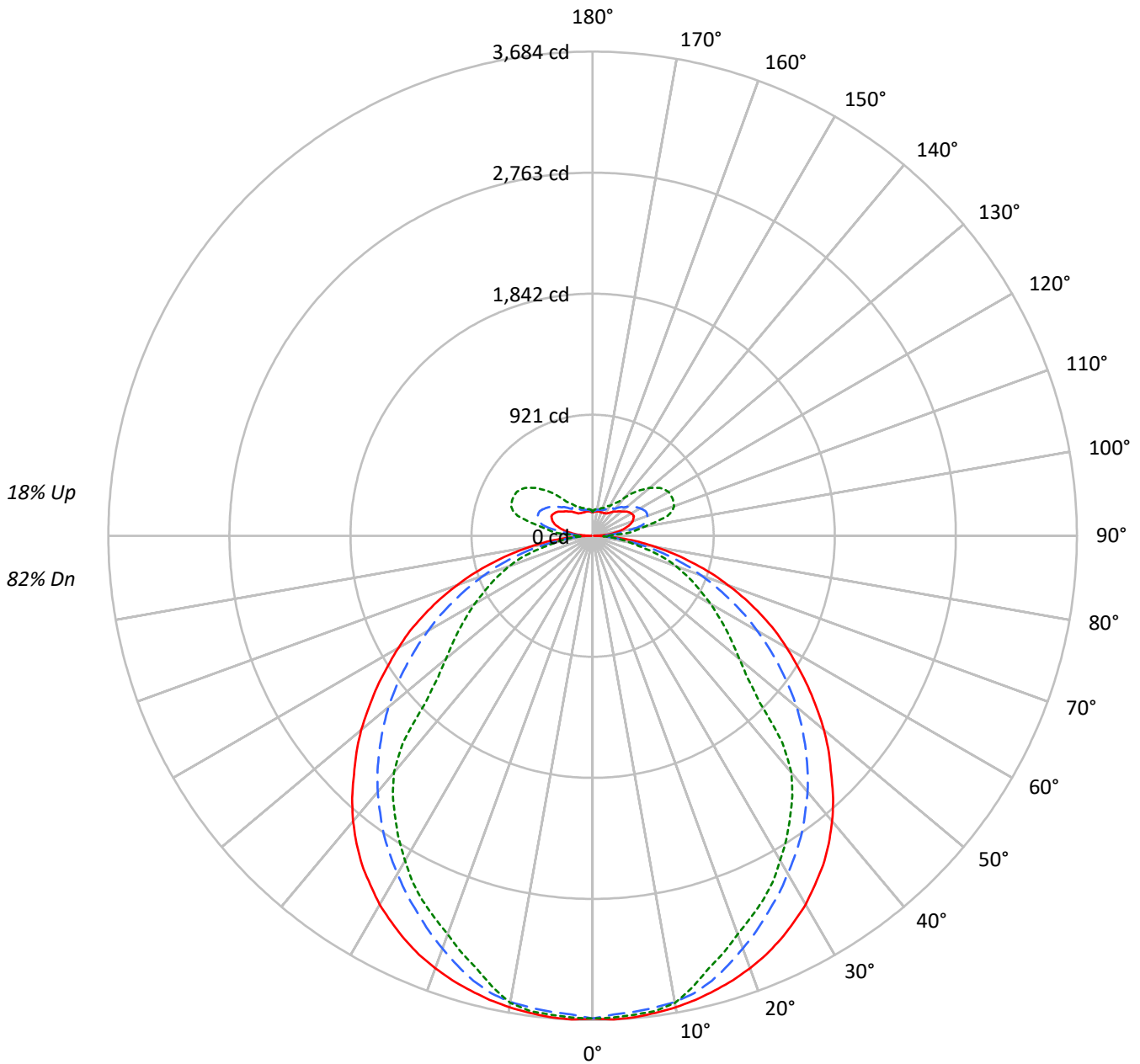
Lumens per Lamp: N/A
Luminaire Lumens: 11894.9 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 119
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°	9883	9883	9883
5°	9931	9821	9881
10°	9954	9843	9863
15°	9983	9765	9495
20°	10027	9568	9238
25°	10054	9379	9091
30°	10070	9225	8866
35°	10046	9104	8603
40°	9958	8937	8257
45°	9767	8718	6847
50°	9622	8483	6098
55°	9385	8144	5802
60°	9182	7779	5573
65°	8965	7352	5408
70°	8616	6888	5305
75°	8133	6313	4879
80°	7446	5311	4330
85°	6669	4600	4369



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.1	2.9
10°-20°	988.8	8.3
20°-30°	1475.7	12.4
30°-40°	1758.3	14.8
40°-50°	1748.9	14.7
50°-60°	1498.9	12.6
60°-70°	1128.9	9.5
70°-80°	653.8	5.5
80°-90°	196.5	1.7
90°-100°	210.9	1.8
100°-110°	433.2	3.6
110°-120°	458.1	3.9
120°-130°	382.1	3.2
130°-140°	266.9	2.2
140°-150°	166.1	1.4
150°-160°	103.0	0.9
160°-170°	58.0	0.5
170°-180°	18.7	0.2
0°-30°	2812.6	23.6
0°-40°	4570.9	38.4
0°-60°	7818.7	65.7
0°-90°	9797.8	82.4
90°-120°	1102.2	9.3
90°-150°	1917.3	16.1
90°-180°	2097.0	17.6
0°-180°	11894.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3673	3673	3673	3673	3673	
5°	3677	3665	3636	3662	3658	350
15°	3583	3580	3505	3446	3408	1013
25°	3386	3338	3159	3081	3062	1561
35°	3058	2976	2771	2663	2619	1910
45°	2566	2503	2291	2064	1799	1984
55°	2000	1970	1736	1378	1237	1788
65°	1408	1374	1155	898	849	1392
75°	782	756	607	484	469	829
85°	216	190	149	142	142	230
90°	11	52	89	112	119	22
95°	119	160	182	268	290	114
105°	279	290	417	559	592	290
115°	346	294	443	611	670	337
125°	320	283	384	562	633	285
135°	261	283	309	417	480	204
145°	212	246	268	287	305	135
155°	194	205	220	238	242	89
165°	190	197	205	212	212	54
175°	186	190	194	197	201	18
180°	182	182	182	182	182	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3672.8	3672.8	3672.8	3672.8	3672.8
2.5°	3684.0	3676.6	3646.8	3676.6	3669.1
5°	3676.6	3665.4	3635.6	3661.7	3657.9
7.5°	3661.7	3654.2	3620.7	3650.5	3646.8
10°	3643.0	3631.9	3602.1	3624.4	3609.5
12.5°	3617.0	3609.5	3564.8	3546.2	3516.4
15°	3583.4	3579.7	3505.2	3445.6	3408.4
17.5°	3546.2	3531.3	3427.0	3356.2	3322.7
20°	3501.5	3479.1	3341.3	3259.4	3225.8
22.5°	3449.3	3415.8	3255.6	3177.4	3143.9
25°	3386.0	3337.6	3158.8	3080.6	3061.9
27.5°	3315.2	3259.4	3069.4	2991.2	2968.8
30°	3240.7	3170.0	2968.8	2894.3	2853.3
32.5°	3147.6	3080.6	2872.0	2786.3	2741.6
35°	3058.2	2976.3	2771.4	2663.4	2618.7
37.5°	2950.2	2868.2	2655.9	2547.9	2495.7
40°	2834.7	2752.8	2544.2	2417.5	2350.5
42.5°	2708.1	2633.6	2421.2	2268.5	2138.1
45°	2566.5	2503.2	2290.9	2063.6	1799.2
47.5°	2436.1	2376.5	2160.5	1866.2	1594.3
50°	2298.3	2242.4	2026.4	1680.0	1456.5
52.5°	2145.6	2104.6	1881.1	1519.8	1341.0
55°	2000.3	1970.5	1735.8	1378.2	1236.7
57.5°	1847.6	1817.8	1590.6	1244.1	1132.4
60°	1706.0	1676.2	1445.3	1124.9	1035.5
62.5°	1564.5	1523.5	1303.7	1009.5	935.0
65°	1408.0	1374.5	1154.7	897.7	849.3
67.5°	1251.6	1221.8	1016.9	793.4	759.9
70°	1095.1	1069.1	875.4	692.8	674.2
72.5°	942.4	908.9	748.7	592.3	584.8
75°	782.2	756.2	607.2	484.2	469.3
77.5°	629.5	607.2	476.8	368.8	357.6
80°	480.5	458.2	342.7	268.2	279.4
82.5°	353.9	324.1	230.9	208.6	219.8
85°	216.0	190.0	149.0	141.5	141.5
87.5°	74.5	70.8	67.0	78.2	81.9
90°	11.2	52.1	89.4	111.7	119.2
92.5°	63.3	93.1	122.9	145.3	152.7
95°	119.2	160.2	182.5	268.2	290.5
97.5°	163.9	212.3	238.4	316.6	339.0
100°	208.6	253.3	335.2	376.2	402.3
102.5°	245.8	279.4	394.8	476.8	491.7
105°	279.4	290.5	417.2	558.7	592.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	335.2	298.0	447.0	607.2	666.8
115°	346.4	294.3	443.3	610.9	670.5
117.5°	346.4	294.3	432.1	610.9	670.5
120°	339.0	298.0	417.2	603.4	666.8
122.5°	331.5	290.5	402.3	588.5	651.9
125°	320.3	283.1	383.7	562.5	633.2
127.5°	301.7	290.5	365.0	528.9	599.7
130°	286.8	294.3	342.7	495.4	566.2
132.5°	275.6	286.8	320.3	458.2	521.5
135°	260.7	283.1	309.2	417.2	480.5
137.5°	249.6	271.9	290.5	379.9	432.1
140°	238.4	264.5	271.9	331.5	376.2
142.5°	223.5	253.3	257.0	309.2	327.8
145°	212.3	245.8	268.2	286.8	305.4
147.5°	201.1	230.9	260.7	264.5	283.1
150°	197.4	216.0	249.6	253.3	260.7
152.5°	193.7	208.6	230.9	253.3	257.0
155°	193.7	204.9	219.8	238.4	242.1
157.5°	190.0	204.9	212.3	227.2	230.9
160°	190.0	201.1	208.6	219.8	223.5
162.5°	190.0	201.1	204.9	216.0	219.8
165°	190.0	197.4	204.9	212.3	212.3
167.5°	190.0	197.4	201.1	208.6	208.6
170°	190.0	193.7	201.1	204.9	204.9
172.5°	186.2	193.7	197.4	204.9	204.9
175°	186.2	190.0	193.7	197.4	201.1
177.5°	178.8	190.0	193.7	197.4	193.7
180°	182.5	182.5	182.5	182.5	182.5



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	305.4	294.3	432.1	588.5	637.0
110°	324.1	298.0	443.3	599.7	659.3



(END OF REPORT)