

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: P520720

Luminaire Tested: **8WSLA-175-L950-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: P520720
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2002-689-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 8WSLA-175-L950-UNV-U
Description: 8 FOOT, 3500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 90 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

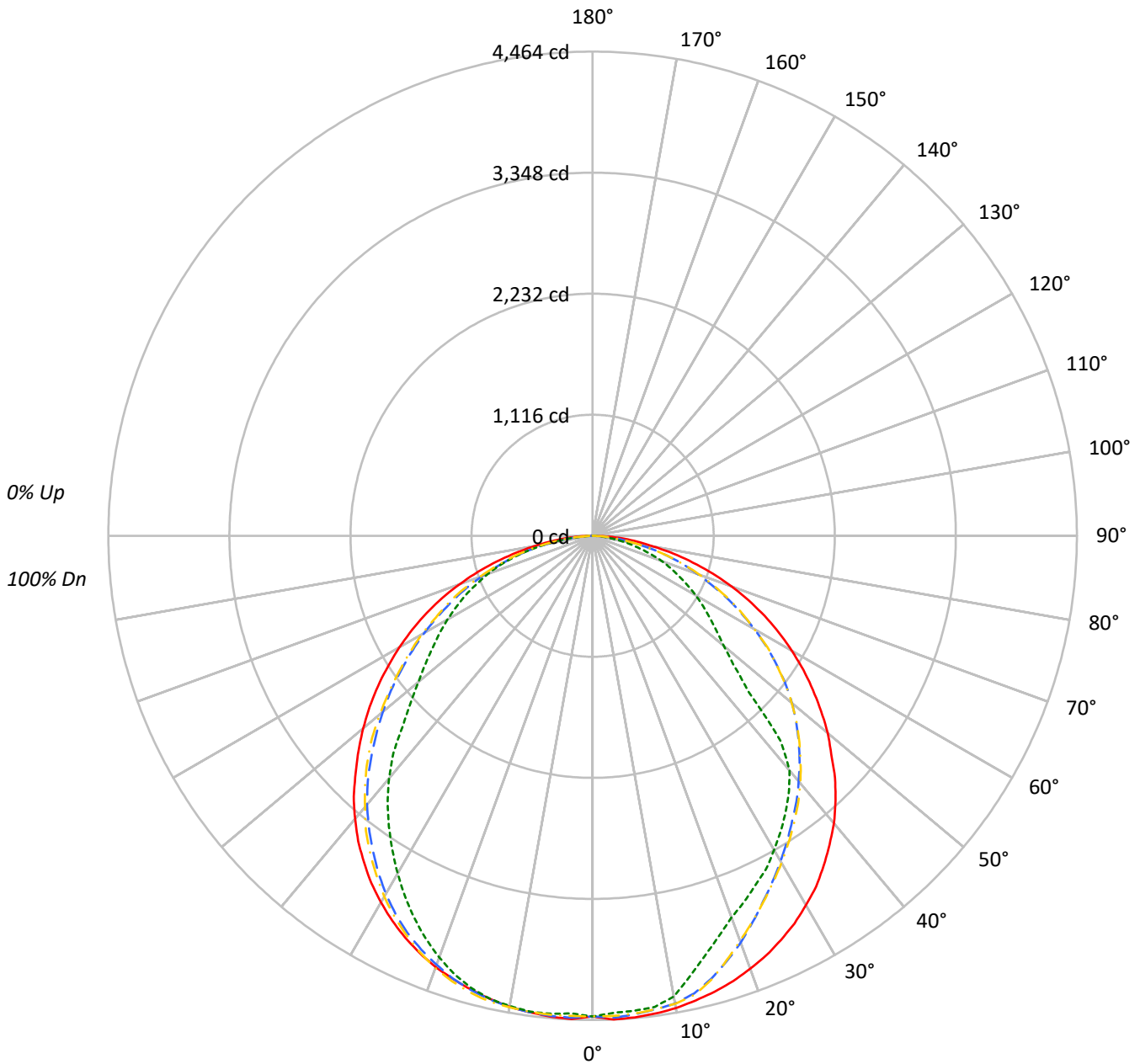
Lumens per Lamp: N/A
Luminaire Lumens: 11887.0 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84																			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70																			
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60																			
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51																			
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44																			
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39																			
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34																			
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31																			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28																			
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11924	11924	11924	11924
5°	12040	11873	12021	11950
10°	12082	11783	12049	12030
15°	12120	11159	12066	12027
20°	12165	10722	12117	11845
25°	12204	10545	12140	11547
30°	12217	10393	12129	11168
35°	12198	10191	12073	10753
40°	12159	9921	11966	10255
45°	12023	7708	11752	9409
50°	11843	6598	11554	8778
55°	11632	6179	11331	8442
60°	11412	5898	11067	8303
65°	11140	5585	10762	8204
70°	10699	5312	10250	8080
75°	9960	4671	9491	7687
80°	8841	3905	8289	6521
85°	8367	2788	7339	3742



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.0	3.5
10°-20°	1200.9	10.1
20°-30°	1794.4	15.1
30°-40°	2136.0	18.0
40°-50°	2135.1	18.0
50°-60°	1837.2	15.5
60°-70°	1382.8	11.6
70°-80°	788.0	6.6
80°-90°	191.8	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3416.3	28.7
0°-40°	5552.3	46.7
0°-60°	9524.5	80.1
0°-90°	11887.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11887.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4431	4431	4431	4431	4431	
5°	4457	4395	4450	4424	4457	424
15°	4350	4006	4331	4317	4350	1229
25°	4110	3552	4089	3889	4110	1895
35°	3713	3102	3675	3273	3713	2323
45°	3159	2025	3088	2472	3159	2433
55°	2479	1317	2415	1800	2479	2217
65°	1750	877	1690	1288	1750	1728
75°	958	449	913	739	958	1014
85°	271	90	238	121	271	295
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	4431.1	4431.1	4431.1	4431.1	4431.1	4431.1	4431.1	4431.1	4431.1	4431.1	4431.1
2.5°	4464.4	4423.9	4447.7	4440.6	4402.6	4416.8	4431.1	4416.8	4459.6	4421.6	4447.7
5°	4457.2	4414.4	4428.7	4414.4	4395.4	4400.2	4421.6	4407.3	4450.1	4409.7	4443.0
7.5°	4443.0	4390.7	4404.9	4397.8	4381.2	4383.5	4404.9	4393.0	4431.1	4393.0	4431.1
10°	4421.6	4366.9	4378.8	4347.9	4312.2	4338.4	4381.2	4369.3	4409.7	4366.9	4409.7
12.5°	4388.3	4333.6	4321.7	4219.5	4155.3	4205.2	4336.0	4336.0	4374.0	4333.6	4378.8
15°	4350.3	4290.8	4226.6	4072.1	4005.6	4055.5	4236.2	4298.0	4331.2	4290.8	4336.0
17.5°	4305.1	4236.2	4112.5	3931.9	3870.1	3920.0	4105.4	4240.9	4283.7	4240.9	4281.3
20°	4248.0	4167.2	3991.3	3784.5	3744.1	3789.2	3974.7	4172.0	4231.4	4179.1	4207.6
22.5°	4186.2	4088.8	3855.8	3670.4	3651.4	3679.9	3848.7	4086.4	4164.8	4110.2	4129.2
25°	4110.2	3996.1	3720.3	3565.8	3551.5	3568.2	3725.1	3986.5	4088.8	4031.7	4038.8
27.5°	4029.3	3905.7	3591.9	3477.8	3463.6	3470.7	3601.4	3874.8	4000.8	3943.8	3931.9
30°	3931.9	3798.7	3463.6	3359.0	3344.7	3370.9	3482.6	3760.7	3903.3	3846.3	3810.6
32.5°	3834.4	3682.3	3337.6	3256.7	3228.2	3252.0	3359.0	3641.9	3796.4	3736.9	3677.5
35°	3713.2	3558.7	3206.8	3126.0	3102.2	3128.4	3235.4	3518.2	3675.1	3615.7	3534.9
37.5°	3587.2	3427.9	3088.0	3014.3	2971.5	3002.4	3109.4	3389.9	3549.1	3487.3	3387.5
40°	3461.2	3290.0	2954.8	2878.8	2824.1	2869.3	2978.6	3254.4	3406.5	3349.5	3235.4
42.5°	3313.8	3152.2	2824.1	2717.1	2562.6	2707.6	2838.4	3118.9	3259.1	3204.5	3066.6
45°	3159.3	3004.8	2686.2	2427.1	2025.4	2450.9	2695.7	2976.2	3088.0	3035.7	2885.9
47.5°	2983.4	2852.6	2546.0	2151.4	1761.5	2175.1	2550.7	2840.7	2926.3	2869.3	2702.9
50°	2828.9	2700.5	2398.6	1918.4	1576.1	1944.5	2396.2	2688.6	2759.9	2707.6	2522.2
52.5°	2652.9	2541.2	2239.3	1711.6	1438.2	1737.7	2234.6	2531.7	2588.8	2527.0	2341.5
55°	2479.4	2379.6	2070.5	1528.5	1317.0	1552.3	2065.8	2370.1	2415.2	2343.9	2151.4
57.5°	2303.5	2213.2	1897.0	1364.5	1205.2	1390.7	1908.9	2203.7	2234.6	2144.2	1968.3
60°	2120.5	2044.4	1721.1	1219.5	1095.9	1240.9	1716.3	2037.3	2056.3	1958.8	1790.0
62.5°	1937.4	1868.5	1545.2	1086.4	984.2	1100.6	1557.1	1861.3	1873.2	1780.5	1607.0
65°	1749.6	1685.4	1374.0	946.1	877.2	969.9	1385.9	1678.3	1690.2	1585.6	1428.7
67.5°	1554.7	1502.4	1191.0	839.1	775.0	846.3	1214.7	1492.9	1500.0	1397.8	1255.2
70°	1359.8	1314.6	1029.3	722.7	675.1	725.0	1046.0	1288.4	1302.7	1193.3	1079.2
72.5°	1160.1	1124.4	872.4	601.4	558.6	601.4	881.9	1100.6	1110.1	1019.8	908.1
75°	958.0	931.9	713.2	482.6	449.3	480.2	717.9	912.8	912.8	827.3	739.3
77.5°	763.1	744.1	546.8	370.8	347.1	366.1	549.1	722.7	717.9	651.3	582.4
80°	570.5	556.3	392.2	268.6	252.0	261.5	392.2	534.9	534.9	487.3	404.1
82.5°	408.9	392.2	259.1	175.9	166.4	171.2	254.4	373.2	380.4	344.7	273.4
85°	271.0	233.0	140.3	97.5	90.3	92.7	133.1	216.3	237.7	199.7	142.6
87.5°	118.9	78.4	35.7	14.3	7.1	9.5	28.5	68.9	90.3	59.4	19.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	4431.1	4431.1	4431.1	4431.1	4431.1	4431.1
2.5°	4445.3	4407.3	4421.6	4431.1	4421.6	4464.4
5°	4440.6	4423.9	4421.6	4433.5	4414.4	4457.2
7.5°	4433.5	4423.9	4421.6	4426.3	4402.6	4443.0
10°	4416.8	4402.6	4407.3	4414.4	4383.5	4421.6
12.5°	4385.9	4371.7	4374.0	4397.8	4355.0	4388.3
15°	4333.6	4317.0	4333.6	4359.8	4321.7	4350.3
17.5°	4264.7	4238.5	4267.1	4307.5	4278.9	4305.1
20°	4176.7	4136.3	4167.2	4240.9	4214.8	4248.0
22.5°	4069.7	4019.8	4050.7	4157.7	4150.6	4186.2
25°	3948.5	3889.1	3931.9	4062.6	4076.9	4110.2
27.5°	3813.0	3746.5	3803.5	3958.0	3991.3	4029.3
30°	3665.6	3594.3	3660.9	3841.5	3891.5	3931.9
32.5°	3513.5	3435.0	3511.1	3710.8	3782.1	3834.4
35°	3354.2	3273.4	3359.0	3575.3	3660.9	3713.2
37.5°	3183.1	3104.6	3197.3	3432.7	3534.9	3587.2
40°	3007.1	2919.2	3023.8	3263.9	3399.4	3461.2
42.5°	2826.5	2717.1	2845.5	3104.6	3252.0	3313.8
45°	2624.4	2472.3	2645.8	2935.8	3090.3	3159.3
47.5°	2422.4	2270.2	2446.1	2755.2	2921.6	2983.4
50°	2227.4	2096.7	2236.9	2557.9	2750.4	2828.9
52.5°	2049.1	1942.2	2061.0	2365.3	2574.5	2652.9
55°	1882.7	1799.5	1897.0	2175.1	2389.1	2479.4
57.5°	1725.8	1673.5	1740.1	1994.5	2217.9	2303.5
60°	1578.5	1542.8	1590.3	1816.2	2015.9	2120.5
62.5°	1433.4	1414.4	1450.1	1628.4	1828.1	1937.4
65°	1293.2	1288.4	1307.5	1464.3	1630.8	1749.6
67.5°	1152.9	1150.6	1162.4	1290.8	1438.2	1554.7
70°	1012.7	1026.9	1019.8	1103.0	1245.6	1359.8
72.5°	870.1	891.4	879.6	931.9	1069.7	1160.1
75°	710.8	739.3	715.5	775.0	860.5	958.0
77.5°	546.8	577.7	549.1	601.4	694.1	763.1
80°	392.2	420.8	397.0	437.4	518.2	570.5
82.5°	247.2	268.6	249.6	290.0	370.8	408.9
85°	109.4	121.2	126.0	156.9	228.2	271.0
87.5°	4.8	2.4	4.8	30.9	80.8	118.9
90°	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270° - · - · 135°-315°









(END OF REPORT)