

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: P520722

Luminaire Tested: **8WSLA-175-L950-UPL8-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: P520722
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-174-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 8WSLA-175-L950-UPL8-UNV-U
Description: 8 FOOT, 3500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 90 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

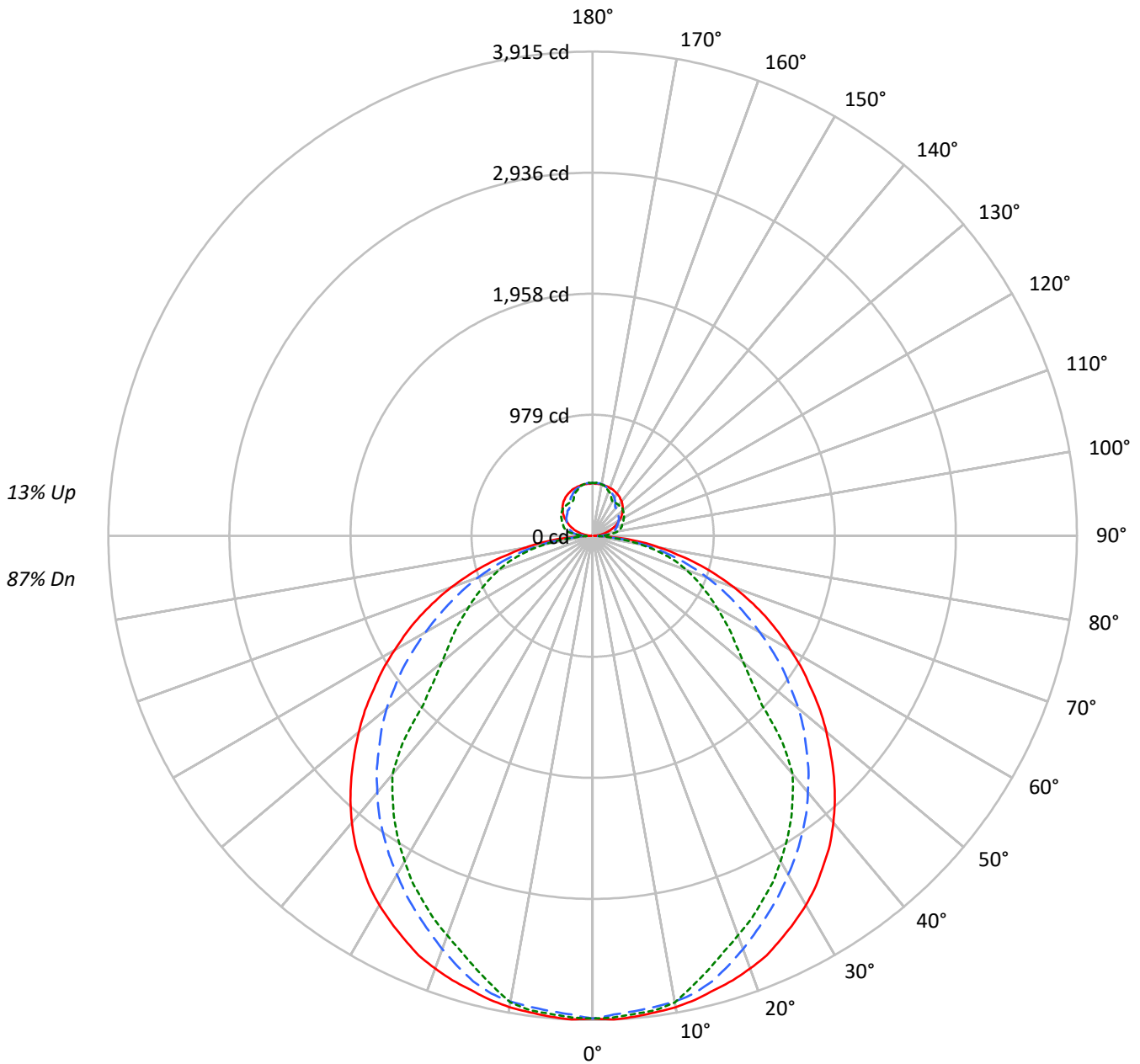
Lumens per Lamp: N/A
Luminaire Lumens: 12149.0 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87																			
1	106	101	97	93	102	98	94	90	91	88	85	85	83	80	79	78	76	73																			
2	96	88	82	76	92	85	79	74	80	75	70	74	70	67	70	66	64	61																			
3	88	78	70	63	84	75	68	62	70	64	59	66	61	56	62	58	54	51																			
4	80	69	60	54	77	67	59	53	62	56	50	59	53	48	55	50	46	44																			
5	74	61	53	46	71	60	51	45	56	49	44	53	47	42	50	45	40	38																			
6	68	55	47	40	66	54	46	40	51	44	38	48	42	37	45	40	36	33																			
7	63	50	42	36	61	49	41	35	46	39	34	43	37	33	41	36	32	30																			
8	59	46	37	32	57	44	37	31	42	35	30	40	34	29	38	32	28	26																			
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24																			
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	32	27	23	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10505	10505	10505
5°	10545	10424	10484
10°	10575	10452	10467
15°	10594	10390	10109
20°	10664	10182	9844
25°	10690	9990	9656
30°	10716	9826	9442
35°	10684	9687	9189
40°	10635	9511	8840
45°	10496	9299	7375
50°	10323	9100	6655
55°	10119	8802	6404
60°	9946	8404	6227
65°	9799	8047	6223
70°	9546	7734	6319
75°	9110	7358	6365
80°	8531	6616	5920
85°	7805	4684	3989



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.6	3.0
10°-20°	1050.7	8.6
20°-30°	1569.9	12.9
30°-40°	1874.0	15.4
40°-50°	1874.2	15.4
50°-60°	1622.0	13.4
60°-70°	1245.0	10.2
70°-80°	762.9	6.3
80°-90°	214.8	1.8
90°-100°	121.4	1.0
100°-110°	192.7	1.6
110°-120°	225.2	1.9
120°-130°	243.2	2.0
130°-140°	239.6	2.0
140°-150°	212.0	1.7
150°-160°	174.5	1.4
160°-170°	116.8	1.0
170°-180°	40.7	0.3
0°-30°	2990.2	24.6
0°-40°	4864.2	40.0
0°-60°	8360.5	68.8
0°-90°	10583.1	87.1
90°-120°	539.3	4.4
90°-150°	1234.0	10.2
90°-180°	1566.0	12.9
0°-180°	12149.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3904	3904	3904	3904	3904	
5°	3904	3892	3859	3887	3881	371
15°	3803	3797	3730	3662	3628	1076
25°	3600	3556	3364	3275	3252	1661
35°	3252	3168	2949	2842	2797	2037
45°	2758	2679	2443	2224	1938	2127
55°	2157	2106	1876	1500	1365	1934
65°	1539	1483	1264	1017	977	1520
75°	876	831	708	612	612	924
85°	253	208	152	129	129	264
90°	11	39	62	79	84	18
95°	45	96	129	135	135	44
105°	129	135	191	225	236	136
115°	213	180	225	258	275	209
125°	286	230	258	298	309	255
135°	343	309	286	314	331	264
145°	382	365	320	314	326	238
155°	404	399	376	360	354	187
165°	416	421	410	410	410	118
175°	421	427	427	432	432	40
180°	427	427	427	427	427	



TEST NUMBER: P520722

CATALOG NUMBER: 8WSLA-175-L950-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3903.8	3903.8	3903.8	3903.8	3903.8
2.5°	3915.0	3903.8	3875.7	3903.8	3898.1
5°	3903.8	3892.5	3858.8	3886.9	3881.3
7.5°	3886.9	3875.7	3842.0	3875.7	3870.1
10°	3870.1	3858.8	3825.1	3847.6	3830.7
12.5°	3842.0	3830.7	3791.4	3763.3	3729.6
15°	3802.7	3797.0	3729.6	3662.2	3628.5
17.5°	3769.0	3752.1	3645.4	3566.7	3527.4
20°	3724.0	3695.9	3555.5	3465.6	3437.6
22.5°	3673.5	3628.5	3460.0	3375.8	3353.3
25°	3600.4	3555.5	3364.5	3274.7	3252.2
27.5°	3527.4	3471.3	3269.0	3179.2	3156.7
30°	3448.8	3370.2	3162.3	3078.1	3038.8
32.5°	3358.9	3280.3	3061.2	2965.7	2920.8
35°	3252.2	3167.9	2948.9	2842.2	2797.2
37.5°	3151.1	3061.2	2836.5	2718.6	2656.8
40°	3027.5	2937.6	2707.4	2578.2	2516.4
42.5°	2898.3	2814.1	2583.8	2426.5	2274.9
45°	2757.9	2679.3	2443.4	2224.3	1937.8
47.5°	2611.9	2544.5	2314.2	2016.5	1741.2
50°	2465.8	2398.4	2173.7	1819.9	1589.6
52.5°	2319.8	2263.6	2016.5	1657.0	1466.0
55°	2156.9	2106.3	1876.1	1499.7	1364.9
57.5°	2010.9	1960.3	1713.2	1370.5	1258.2
60°	1848.0	1803.0	1561.5	1241.3	1157.1
62.5°	1696.3	1645.8	1409.8	1129.0	1067.2
65°	1539.0	1482.9	1263.8	1016.7	977.3
67.5°	1376.1	1320.0	1123.4	915.6	893.1
70°	1213.3	1168.3	983.0	814.5	803.2
72.5°	1044.7	994.2	842.5	719.0	719.0
75°	876.2	831.3	707.7	612.2	612.2
77.5°	702.1	679.6	567.3	499.9	505.5
80°	550.5	522.4	426.9	382.0	382.0
82.5°	404.4	370.7	286.5	252.8	264.0
85°	252.8	207.8	151.7	129.2	129.2
87.5°	78.6	61.8	44.9	50.6	50.6
90°	11.2	39.3	61.8	78.6	84.3
92.5°	28.1	73.0	89.9	106.7	112.3
95°	44.9	95.5	129.2	134.8	134.8
97.5°	61.8	106.7	157.3	179.7	179.7
100°	84.3	112.3	168.5	202.2	207.8
102.5°	106.7	123.6	179.7	213.4	224.7
105°	129.2	134.8	191.0	224.7	235.9



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CATALOG NUMBER: 8WSLA-175-L950-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	191.0	168.5	213.4	252.8	264.0
115°	213.4	179.7	224.7	258.4	275.2
117.5°	230.3	196.6	235.9	269.6	280.8
120°	247.1	207.8	241.5	280.8	292.1
122.5°	269.6	219.1	252.8	286.5	303.3
125°	286.5	230.3	258.4	297.7	308.9
127.5°	303.3	252.8	264.0	303.3	314.5
130°	314.5	275.2	269.6	308.9	320.2
132.5°	331.4	292.1	275.2	314.5	325.8
135°	342.6	308.9	286.5	314.5	331.4
137.5°	353.9	325.8	286.5	314.5	325.8
140°	365.1	342.6	292.1	314.5	325.8
142.5°	370.7	353.9	297.7	314.5	325.8
145°	382.0	365.1	320.2	314.5	325.8
147.5°	387.6	376.3	337.0	314.5	325.8
150°	393.2	387.6	353.9	320.2	320.2
152.5°	398.8	393.2	365.1	342.6	331.4
155°	404.4	398.8	376.3	359.5	353.9
157.5°	410.0	410.0	387.6	376.3	370.7
160°	410.0	415.7	398.8	387.6	382.0
162.5°	415.7	421.3	404.4	398.8	393.2
165°	415.7	421.3	410.0	410.0	410.0
167.5°	421.3	426.9	421.3	415.7	415.7
170°	421.3	426.9	421.3	421.3	421.3
172.5°	421.3	426.9	426.9	426.9	426.9
175°	421.3	426.9	426.9	432.5	432.5
177.5°	421.3	426.9	426.9	426.9	426.9
180°	426.9	426.9	426.9	426.9	426.9



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	151.7	146.0	196.6	235.9	247.1
110°	168.5	157.3	207.8	241.5	252.8



(END OF REPORT)