

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: P520715

Luminaire Tested: **8WSLA-175-L935-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: P520715
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-L935-UPL15-UNV-U
Description: 8 FOOT, 3500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 90 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

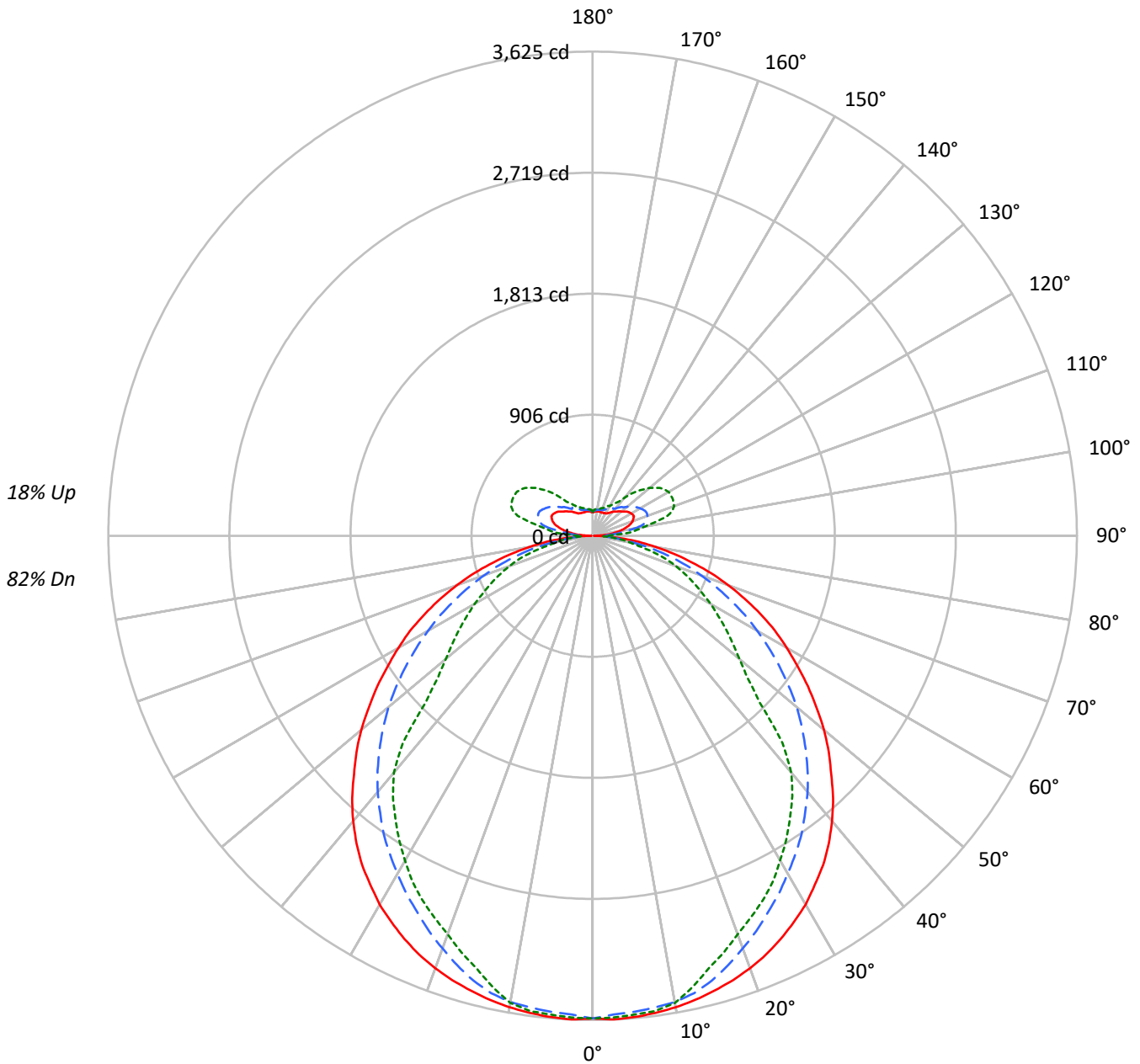
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11703.0 lumens
Efficiency: N/A
Efficacy: 98.3 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

TEST NUMBER: P520715
CATALOG NUMBER: 8WSLA-175-L935-UPL15-UNV-U

Luminous Intensity Polar Plot





TEST NUMBER: P520715

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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°	9724	9724	9724
5°	9771	9662	9722
10°	9794	9684	9704
15°	9822	9607	9342
20°	9865	9414	9089
25°	9891	9228	8945
30°	9907	9076	8723
35°	9884	8957	8464
40°	9797	8793	8123
45°	9610	8577	6736
50°	9466	8346	5999
55°	9233	8012	5708
60°	9034	7653	5483
65°	8821	7234	5321
70°	8478	6776	5219
75°	8002	6211	4801
80°	7327	5225	4260
85°	6564	4526	4301



TEST NUMBER: P520715

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.5	2.9
10°-20°	972.8	8.3
20°-30°	1451.9	12.4
30°-40°	1729.9	14.8
40°-50°	1720.7	14.7
50°-60°	1474.7	12.6
60°-70°	1110.6	9.5
70°-80°	643.2	5.5
80°-90°	193.3	1.7
90°-100°	207.5	1.8
100°-110°	426.2	3.6
110°-120°	450.6	3.9
120°-130°	376.0	3.2
130°-140°	262.6	2.2
140°-150°	163.5	1.4
150°-160°	101.3	0.9
160°-170°	57.1	0.5
170°-180°	18.4	0.2
0°-30°	2767.2	23.6
0°-40°	4497.1	38.4
0°-60°	7692.6	65.7
0°-90°	9639.8	82.4
90°-120°	1084.4	9.3
90°-150°	1886.5	16.1
90°-180°	2063.0	17.6
0°-180°	11703.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3614	3614	3614	3614	3614	
5°	3617	3606	3577	3603	3599	344
15°	3526	3522	3449	3390	3353	996
25°	3331	3284	3108	3031	3012	1536
35°	3009	2928	2727	2620	2576	1879
45°	2525	2463	2254	2030	1770	1952
55°	1968	1939	1708	1356	1217	1759
65°	1385	1352	1136	883	836	1369
75°	770	744	597	476	462	815
85°	213	187	147	139	139	227
90°	11	51	88	110	117	22
95°	117	158	180	264	286	112
105°	275	286	410	550	583	285
115°	341	290	436	601	660	332
125°	315	278	378	553	623	280
135°	256	278	304	410	473	200
145°	209	242	264	282	300	133
155°	191	202	216	235	238	88
165°	187	194	202	209	209	53
175°	183	187	191	194	198	17
180°	180	180	180	180	180	



TEST NUMBER: P520715

CATALOG NUMBER: 8WSLA-175-L935-UPL15-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3613.6	3613.6	3613.6	3613.6	3613.6
2.5°	3624.6	3617.2	3587.9	3617.2	3609.9
5°	3617.2	3606.2	3576.9	3602.6	3598.9
7.5°	3602.6	3595.2	3562.3	3591.6	3587.9
10°	3584.2	3573.2	3543.9	3565.9	3551.3
12.5°	3558.6	3551.3	3507.3	3489.0	3459.6
15°	3525.6	3521.9	3448.6	3390.0	3353.4
17.5°	3489.0	3474.3	3371.7	3302.0	3269.1
20°	3445.0	3423.0	3287.4	3206.8	3173.8
22.5°	3393.7	3360.7	3203.1	3126.1	3093.2
25°	3331.4	3283.7	3107.8	3030.8	3012.5
27.5°	3261.7	3206.8	3019.9	2942.9	2920.9
30°	3188.4	3118.8	2920.9	2847.6	2807.3
32.5°	3096.8	3030.8	2825.6	2741.3	2697.3
35°	3008.9	2928.2	2726.7	2620.4	2576.4
37.5°	2902.6	2821.9	2613.1	2506.8	2455.5
40°	2789.0	2708.3	2503.1	2378.5	2312.5
42.5°	2664.4	2591.1	2382.2	2231.9	2103.6
45°	2525.1	2462.8	2253.9	2030.3	1770.1
47.5°	2396.8	2338.2	2125.6	1836.1	1568.6
50°	2261.2	2206.3	1993.7	1652.9	1433.0
52.5°	2111.0	2070.7	1850.8	1495.3	1319.4
55°	1968.0	1938.7	1707.8	1356.0	1216.7
57.5°	1817.8	1788.5	1564.9	1224.1	1114.1
60°	1678.5	1649.2	1422.0	1106.8	1018.8
62.5°	1539.2	1498.9	1282.7	993.2	919.9
65°	1385.3	1352.3	1136.1	883.2	835.6
67.5°	1231.4	1202.1	1000.5	780.6	747.6
70°	1077.5	1051.8	861.2	681.7	663.3
72.5°	927.2	894.2	736.6	582.7	575.4
75°	769.6	744.0	597.4	476.4	461.8
77.5°	619.4	597.4	469.1	362.8	351.8
80°	472.8	450.8	337.2	263.9	274.9
82.5°	348.2	318.8	227.2	205.2	216.2
85°	212.6	186.9	146.6	139.3	139.3
87.5°	73.3	69.6	66.0	77.0	80.6
90°	11.0	51.3	88.0	109.9	117.3
92.5°	62.3	91.6	120.9	142.9	150.3
95°	117.3	157.6	179.6	263.9	285.9
97.5°	161.3	208.9	234.6	311.5	333.5
100°	205.2	249.2	329.8	370.2	395.8
102.5°	241.9	274.9	388.5	469.1	483.8
105°	274.9	285.9	410.5	549.7	582.7



TEST NUMBER: P520715

CATALOG NUMBER: 8WSLA-175-L935-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	329.8	293.2	439.8	597.4	656.0
115°	340.8	289.5	436.1	601.0	659.7
117.5°	340.8	289.5	425.1	601.0	659.7
120°	333.5	293.2	410.5	593.7	656.0
122.5°	326.2	285.9	395.8	579.0	641.4
125°	315.2	278.5	377.5	553.4	623.0
127.5°	296.9	285.9	359.2	520.4	590.0
130°	282.2	289.5	337.2	487.4	557.1
132.5°	271.2	282.2	315.2	450.8	513.1
135°	256.5	278.5	304.2	410.5	472.8
137.5°	245.5	267.5	285.9	373.8	425.1
140°	234.6	260.2	267.5	326.2	370.2
142.5°	219.9	249.2	252.9	304.2	322.5
145°	208.9	241.9	263.9	282.2	300.5
147.5°	197.9	227.2	256.5	260.2	278.5
150°	194.2	212.6	245.5	249.2	256.5
152.5°	190.6	205.2	227.2	249.2	252.9
155°	190.6	201.6	216.2	234.6	238.2
157.5°	186.9	201.6	208.9	223.6	227.2
160°	186.9	197.9	205.2	216.2	219.9
162.5°	186.9	197.9	201.6	212.6	216.2
165°	186.9	194.2	201.6	208.9	208.9
167.5°	186.9	194.2	197.9	205.2	205.2
170°	186.9	190.6	197.9	201.6	201.6
172.5°	183.2	190.6	194.2	201.6	201.6
175°	183.2	186.9	190.6	194.2	197.9
177.5°	175.9	186.9	190.6	194.2	190.6
180°	179.6	179.6	179.6	179.6	179.6



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	300.5	289.5	425.1	579.0	626.7
110°	318.8	293.2	436.1	590.0	648.7



(END OF REPORT)