

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: P520701

Luminaire Tested: **8WSLA-175-L830-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: P520701
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-L830-UPL8-UNV-U
Description: 8 FOOT, 3500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

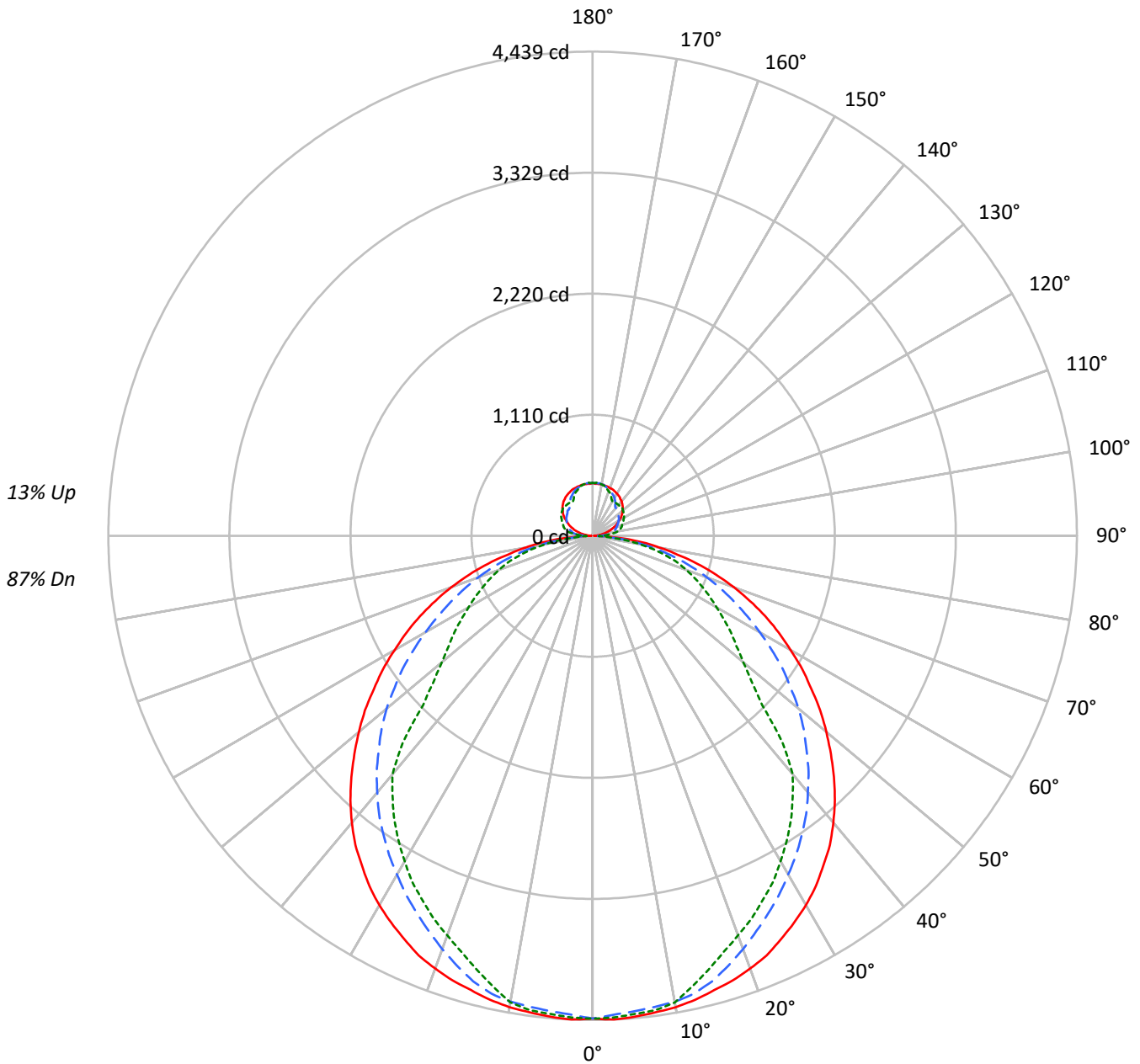
Lumens per Lamp: N/A
Luminaire Lumens: 13776.0 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

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

TEST NUMBER: P520701

CATALOG NUMBER: 8WSLA-175-L830-UPL8-UNV-U

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°	11912	11912	11912
5°	11957	11820	11889
10°	11991	11852	11869
15°	12013	11782	11463
20°	12092	11545	11162
25°	12122	11328	10949
30°	12152	11142	10707
35°	12114	10985	10420
40°	12060	10784	10023
45°	11901	10544	8362
50°	11706	10319	7546
55°	11475	9980	7261
60°	11277	9529	7061
65°	11112	9125	7056
70°	10824	8770	7166
75°	10331	8344	7218
80°	9673	7502	6712
85°	8849	5311	4523



TEST NUMBER: P520701

CATALOG NUMBER: 8WSLA-175-L830-UPL8-UNV-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.1	3.0
10°-20°	1191.4	8.6
20°-30°	1780.2	12.9
30°-40°	2125.0	15.4
40°-50°	2125.2	15.4
50°-60°	1839.3	13.4
60°-70°	1411.7	10.2
70°-80°	865.0	6.3
80°-90°	243.5	1.8
90°-100°	137.6	1.0
100°-110°	218.5	1.6
110°-120°	255.4	1.9
120°-130°	275.7	2.0
130°-140°	271.7	2.0
140°-150°	240.4	1.7
150°-160°	197.8	1.4
160°-170°	132.4	1.0
170°-180°	46.1	0.3
0°-30°	3390.6	24.6
0°-40°	5515.6	40.0
0°-60°	9480.1	68.8
0°-90°	12000.4	87.1
90°-120°	611.5	4.4
90°-150°	1399.3	10.2
90°-180°	1776.0	12.9
0°-180°	13776.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4427	4427	4427	4427	4427	
5°	4427	4414	4376	4407	4401	421
15°	4312	4306	4229	4153	4114	1220
25°	4083	4032	3815	3713	3688	1884
35°	3688	3592	3344	3223	3172	2309
45°	3127	3038	2771	2522	2197	2411
55°	2446	2388	2127	1701	1548	2193
65°	1745	1682	1433	1153	1108	1724
75°	994	943	802	694	694	1048
85°	287	236	172	146	146	300
90°	13	45	70	89	96	20
95°	51	108	146	153	153	50
105°	146	153	217	255	268	154
115°	242	204	255	293	312	237
125°	325	261	293	338	350	289
135°	388	350	325	357	376	300
145°	433	414	363	357	369	270
155°	459	452	427	408	401	212
165°	471	478	465	465	465	134
175°	478	484	484	490	490	46
180°	484	484	484	484	484	



TEST NUMBER: P520701

CATALOG NUMBER: 8WSLA-175-L830-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4426.6	4426.6	4426.6	4426.6	4426.6
2.5°	4439.3	4426.6	4394.7	4426.6	4420.2
5°	4426.6	4413.8	4375.6	4407.4	4401.1
7.5°	4407.4	4394.7	4356.5	4394.7	4388.3
10°	4388.3	4375.6	4337.4	4362.9	4343.8
12.5°	4356.5	4343.8	4299.2	4267.3	4229.1
15°	4311.9	4305.5	4229.1	4152.7	4114.5
17.5°	4273.7	4254.6	4133.6	4044.4	3999.8
20°	4222.7	4190.9	4031.7	3929.8	3897.9
22.5°	4165.4	4114.5	3923.4	3827.9	3802.4
25°	4082.6	4031.7	3815.1	3713.2	3687.7
27.5°	3999.8	3936.1	3706.8	3604.9	3579.5
30°	3910.7	3821.5	3585.8	3490.3	3445.7
32.5°	3808.7	3719.6	3471.2	3362.9	3312.0
35°	3687.7	3592.2	3343.8	3222.8	3171.8
37.5°	3573.1	3471.2	3216.4	3082.7	3012.6
40°	3433.0	3331.1	3069.9	2923.4	2853.4
42.5°	3286.5	3190.9	2929.8	2751.5	2579.5
45°	3127.2	3038.1	2770.6	2522.2	2197.4
47.5°	2961.7	2885.2	2624.1	2286.5	1974.4
50°	2796.1	2719.6	2464.9	2063.6	1802.5
52.5°	2630.5	2566.8	2286.5	1878.9	1662.3
55°	2445.8	2388.4	2127.3	1700.6	1547.7
57.5°	2280.2	2222.8	1942.6	1554.1	1426.7
60°	2095.4	2044.5	1770.6	1407.6	1312.0
62.5°	1923.5	1866.2	1598.7	1280.2	1210.1
65°	1745.1	1681.5	1433.1	1152.8	1108.2
67.5°	1560.4	1496.7	1273.8	1038.2	1012.7
70°	1375.7	1324.8	1114.6	923.5	910.8
72.5°	1184.7	1127.3	955.4	815.3	815.3
75°	993.6	942.6	802.5	694.2	694.2
77.5°	796.1	770.7	643.3	566.9	573.2
80°	624.2	592.3	484.1	433.1	433.1
82.5°	458.6	420.4	324.8	286.6	299.3
85°	286.6	235.7	172.0	146.5	146.5
87.5°	89.2	70.1	51.0	57.3	57.3
90°	12.7	44.6	70.1	89.2	95.5
92.5°	31.8	82.8	101.9	121.0	127.4
95°	51.0	108.3	146.5	152.9	152.9
97.5°	70.1	121.0	178.3	203.8	203.8
100°	95.5	127.4	191.1	229.3	235.7
102.5°	121.0	140.1	203.8	242.0	254.8
105°	146.5	152.9	216.6	254.8	267.5



TEST NUMBER: P520701

CATALOG NUMBER: 8WSLA-175-L830-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	216.6	191.1	242.0	286.6	299.3
115°	242.0	203.8	254.8	293.0	312.1
117.5°	261.1	222.9	267.5	305.7	318.5
120°	280.2	235.7	273.9	318.5	331.2
122.5°	305.7	248.4	286.6	324.8	343.9
125°	324.8	261.1	293.0	337.6	350.3
127.5°	343.9	286.6	299.3	343.9	356.7
130°	356.7	312.1	305.7	350.3	363.0
132.5°	375.8	331.2	312.1	356.7	369.4
135°	388.5	350.3	324.8	356.7	375.8
137.5°	401.3	369.4	324.8	356.7	369.4
140°	414.0	388.5	331.2	356.7	369.4
142.5°	420.4	401.3	337.6	356.7	369.4
145°	433.1	414.0	363.0	356.7	369.4
147.5°	439.5	426.7	382.1	356.7	369.4
150°	445.8	439.5	401.3	363.0	363.0
152.5°	452.2	445.8	414.0	388.5	375.8
155°	458.6	452.2	426.7	407.6	401.3
157.5°	464.9	464.9	439.5	426.7	420.4
160°	464.9	471.3	452.2	439.5	433.1
162.5°	471.3	477.7	458.6	452.2	445.8
165°	471.3	477.7	464.9	464.9	464.9
167.5°	477.7	484.1	477.7	471.3	471.3
170°	477.7	484.1	477.7	477.7	477.7
172.5°	477.7	484.1	484.1	484.1	484.1
175°	477.7	484.1	484.1	490.4	490.4
177.5°	477.7	484.1	484.1	484.1	484.1
180°	484.1	484.1	484.1	484.1	484.1



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	172.0	165.6	222.9	267.5	280.2
110°	191.1	178.3	235.7	273.9	286.6



(END OF REPORT)