

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: P520736

Luminaire Tested: **8WSLA-200-L930-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: P520736
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-200-L930-UPL15-UNV-U
Description: 8 FOOT, 4000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 90 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

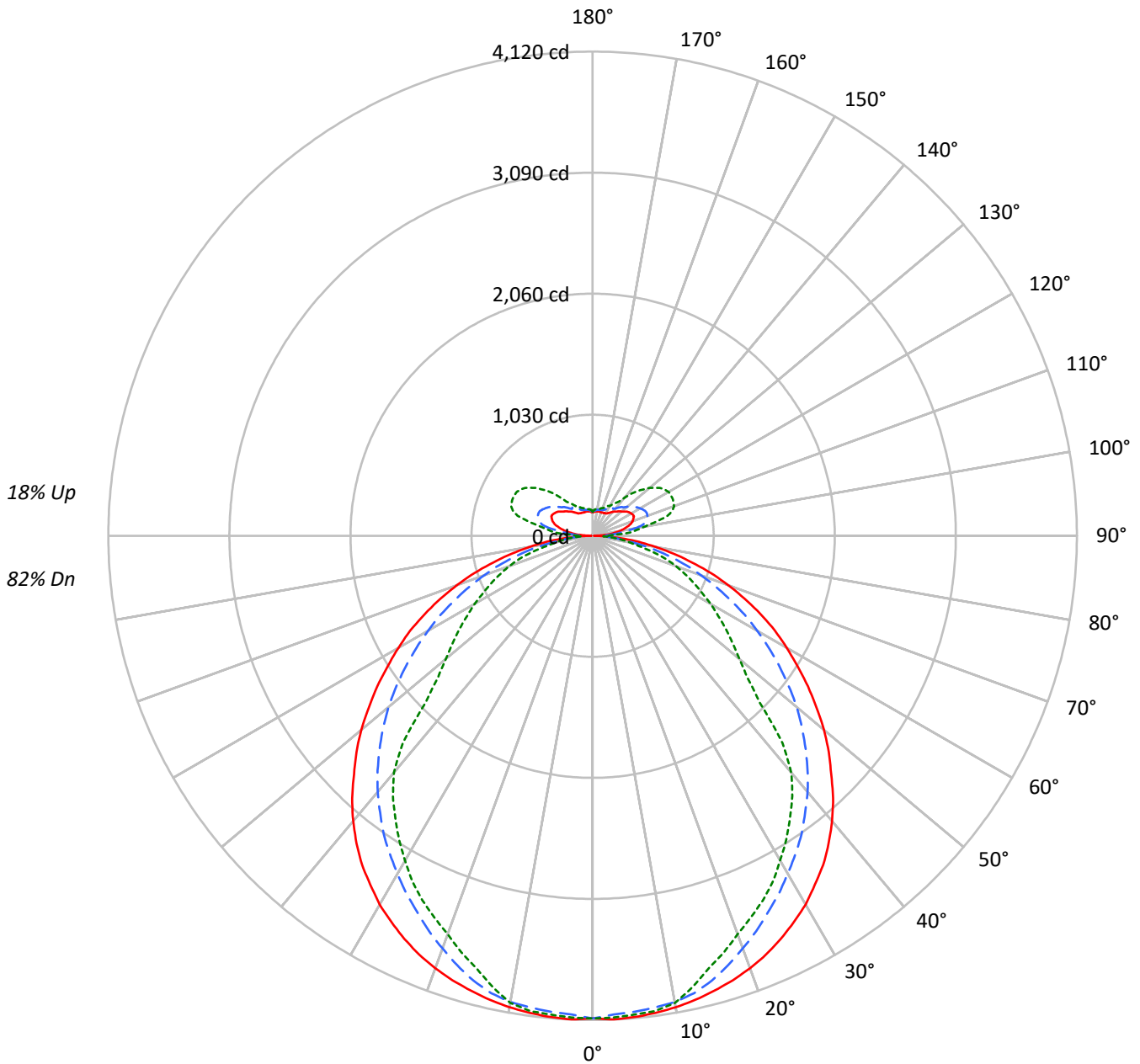
Lumens per Lamp: N/A
Luminaire Lumens: 13301.0 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 152.3
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°	11052	11052	11052
5°	11105	10981	11049
10°	11131	11006	11029
15°	11163	10919	10618
20°	11212	10700	10330
25°	11242	10488	10166
30°	11260	10315	9914
35°	11234	10180	9619
40°	11135	9994	9233
45°	10922	9749	7656
50°	10759	9486	6818
55°	10494	9106	6488
60°	10267	8698	6232
65°	10025	8222	6047
70°	9635	7701	5932
75°	9094	7059	5456
80°	8326	5938	4841
85°	7460	5144	4888



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.3	2.9
10°-20°	1105.7	8.3
20°-30°	1650.1	12.4
30°-40°	1966.1	14.8
40°-50°	1955.7	14.7
50°-60°	1676.1	12.6
60°-70°	1262.3	9.5
70°-80°	731.1	5.5
80°-90°	219.7	1.7
90°-100°	235.9	1.8
100°-110°	484.4	3.6
110°-120°	512.2	3.9
120°-130°	427.3	3.2
130°-140°	298.5	2.2
140°-150°	185.8	1.4
150°-160°	115.2	0.9
160°-170°	64.9	0.5
170°-180°	20.9	0.2
0°-30°	3145.0	23.6
0°-40°	5111.2	38.4
0°-60°	8742.9	65.7
0°-90°	10956.0	82.4
90°-120°	1232.5	9.3
90°-150°	2144.1	16.1
90°-180°	2345.0	17.6
0°-180°	13301.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4107	4107	4107	4107	4107	
5°	4111	4099	4065	4094	4090	391
15°	4007	4003	3920	3853	3811	1132
25°	3786	3732	3532	3445	3424	1746
35°	3420	3328	3099	2978	2928	2136
45°	2870	2799	2562	2308	2012	2219
55°	2237	2203	1941	1541	1383	2000
65°	1574	1537	1291	1004	950	1556
75°	875	846	679	542	525	927
85°	242	212	167	158	158	258
90°	12	58	100	125	133	25
95°	133	179	204	300	325	127
105°	312	325	466	625	662	324
115°	387	329	496	683	750	377
125°	358	317	429	629	708	318
135°	292	317	346	466	537	228
145°	237	275	300	321	342	151
155°	217	229	246	267	271	100
165°	212	221	229	237	237	60
175°	208	212	217	221	225	20
180°	204	204	204	204	204	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4107.0	4107.0	4107.0	4107.0	4107.0
2.5°	4119.5	4111.1	4077.8	4111.1	4102.8
5°	4111.1	4098.6	4065.3	4094.5	4090.3
7.5°	4094.5	4086.2	4048.7	4082.0	4077.8
10°	4073.7	4061.2	4027.8	4052.8	4036.2
12.5°	4044.5	4036.2	3986.2	3965.4	3932.0
15°	4007.0	4002.8	3919.5	3852.9	3811.2
17.5°	3965.4	3948.7	3832.1	3752.9	3715.4
20°	3915.4	3890.4	3736.3	3644.6	3607.1
22.5°	3857.1	3819.6	3640.5	3553.0	3515.5
25°	3786.3	3732.1	3532.2	3444.7	3423.9
27.5°	3707.1	3644.6	3432.2	3344.7	3319.7
30°	3623.8	3544.7	3319.7	3236.4	3190.6
32.5°	3519.7	3444.7	3211.4	3115.6	3065.7
35°	3419.7	3328.1	3099.0	2978.2	2928.2
37.5°	3298.9	3207.3	2969.9	2849.1	2790.7
40°	3169.8	3078.2	2844.9	2703.3	2628.3
42.5°	3028.2	2944.9	2707.4	2536.7	2390.9
45°	2869.9	2799.1	2561.7	2307.6	2011.8
47.5°	2724.1	2657.5	2415.9	2086.8	1782.7
50°	2570.0	2507.5	2265.9	1878.5	1628.6
52.5°	2399.2	2353.4	2103.5	1699.4	1499.5
55°	2236.8	2203.4	1941.0	1541.2	1382.9
57.5°	2066.0	2032.7	1778.6	1391.2	1266.2
60°	1907.7	1874.4	1616.1	1257.9	1158.0
62.5°	1749.4	1703.6	1457.9	1128.8	1045.5
65°	1574.5	1537.0	1291.2	1003.8	949.7
67.5°	1399.5	1366.2	1137.1	887.2	849.7
70°	1224.6	1195.4	978.8	774.7	753.9
72.5°	1053.8	1016.3	837.2	662.3	654.0
75°	874.7	845.6	678.9	541.5	524.8
77.5°	703.9	678.9	533.2	412.4	399.9
80°	537.3	512.3	383.2	299.9	312.4
82.5°	395.7	362.4	258.2	233.3	245.8
85°	241.6	212.4	166.6	158.3	158.3
87.5°	83.3	79.1	75.0	87.5	91.6
90°	12.5	58.3	100.0	125.0	133.3
92.5°	70.8	104.1	137.5	162.4	170.8
95°	133.3	179.1	204.1	299.9	324.9
97.5°	183.3	237.4	266.6	354.0	379.0
100°	233.3	283.2	374.9	420.7	449.9
102.5°	274.9	312.4	441.5	533.2	549.8
105°	312.4	324.9	466.5	624.8	662.3



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CATALOG NUMBER: 8WSLA-200-L930-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	374.9	333.2	499.8	678.9	745.6
115°	387.4	329.1	495.7	683.1	749.8
117.5°	387.4	329.1	483.2	683.1	749.8
120°	379.0	333.2	466.5	674.8	745.6
122.5°	370.7	324.9	449.9	658.1	728.9
125°	358.2	316.6	429.0	629.0	708.1
127.5°	337.4	324.9	408.2	591.5	670.6
130°	320.7	329.1	383.2	554.0	633.1
132.5°	308.2	320.7	358.2	512.3	583.1
135°	291.6	316.6	345.7	466.5	537.3
137.5°	279.1	304.1	324.9	424.9	483.2
140°	266.6	295.7	304.1	370.7	420.7
142.5°	249.9	283.2	287.4	345.7	366.5
145°	237.4	274.9	299.9	320.7	341.6
147.5°	224.9	258.2	291.6	295.7	316.6
150°	220.8	241.6	279.1	283.2	291.6
152.5°	216.6	233.3	258.2	283.2	287.4
155°	216.6	229.1	245.8	266.6	270.7
157.5°	212.4	229.1	237.4	254.1	258.2
160°	212.4	224.9	233.3	245.8	249.9
162.5°	212.4	224.9	229.1	241.6	245.8
165°	212.4	220.8	229.1	237.4	237.4
167.5°	212.4	220.8	224.9	233.3	233.3
170°	212.4	216.6	224.9	229.1	229.1
172.5°	208.3	216.6	220.8	229.1	229.1
175°	208.3	212.4	216.6	220.8	224.9
177.5°	199.9	212.4	216.6	220.8	216.6
180°	204.1	204.1	204.1	204.1	204.1



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	341.6	329.1	483.2	658.1	712.3
110°	362.4	333.2	495.7	670.6	737.3



(END OF REPORT)