

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: P520725

Luminaire Tested: **8WSLA-200-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: P520725
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-200-L830-UPL8-UNV-U
Description: 8 FOOT, 4000 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

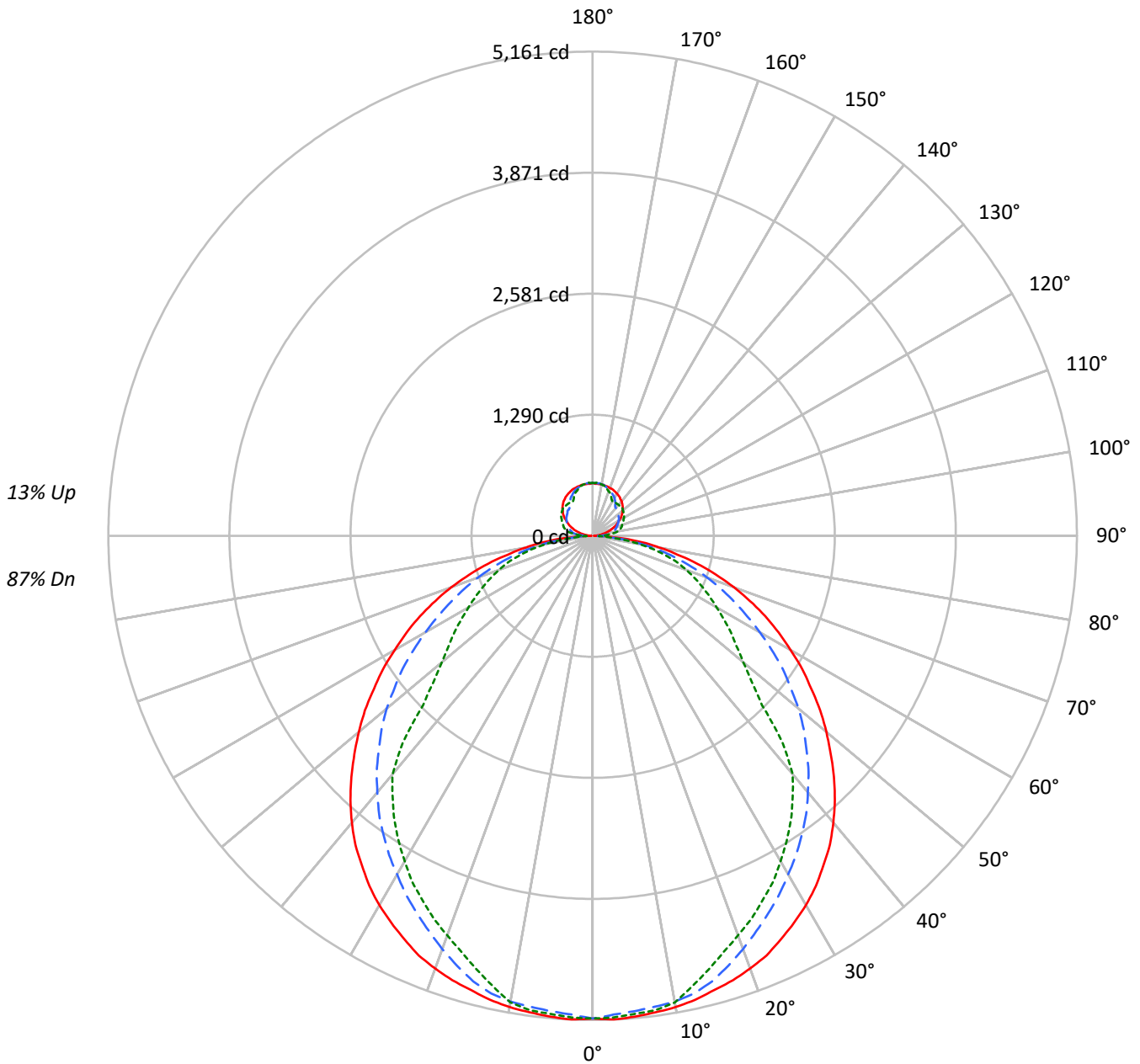
Lumens per Lamp: N/A
Luminaire Lumens: 16015.0 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 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	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°	13848	13848	13848
5°	13901	13741	13821
10°	13940	13778	13798
15°	13965	13697	13326
20°	14058	13422	12976
25°	14092	13169	12729
30°	14126	12953	12447
35°	14083	12770	12113
40°	14019	12537	11652
45°	13835	12258	9721
50°	13608	11996	8772
55°	13340	11602	8441
60°	13110	11078	8209
65°	12918	10608	8204
70°	12583	10195	8331
75°	12010	9699	8392
80°	11244	8720	7803
85°	10288	6172	5258



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	487.2	3.0
10°-20°	1385.0	8.6
20°-30°	2069.5	12.9
30°-40°	2470.4	15.4
40°-50°	2470.6	15.4
50°-60°	2138.2	13.4
60°-70°	1641.2	10.2
70°-80°	1005.6	6.3
80°-90°	283.1	1.8
90°-100°	160.0	1.0
100°-110°	254.0	1.6
110°-120°	296.9	1.9
120°-130°	320.5	2.0
130°-140°	315.9	2.0
140°-150°	279.4	1.7
150°-160°	230.0	1.4
160°-170°	153.9	1.0
170°-180°	53.6	0.3
0°-30°	3941.7	24.6
0°-40°	6412.1	40.0
0°-60°	11020.9	68.8
0°-90°	13950.8	87.1
90°-120°	710.9	4.4
90°-150°	1626.8	10.2
90°-180°	2064.0	12.9
0°-180°	16015.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5146	5146	5146	5146	5146	
5°	5146	5131	5087	5124	5116	490
15°	5013	5005	4916	4828	4783	1418
25°	4746	4687	4435	4317	4287	2190
35°	4287	4176	3887	3747	3687	2685
45°	3636	3532	3221	2932	2554	2803
55°	2843	2777	2473	1977	1799	2549
65°	2029	1955	1666	1340	1288	2004
75°	1155	1096	933	807	807	1219
85°	333	274	200	170	170	348
90°	15	52	81	104	111	23
95°	59	126	170	178	178	58
105°	170	178	252	296	311	179
115°	281	237	296	341	363	275
125°	378	304	341	392	407	336
135°	452	407	378	415	437	348
145°	504	481	422	415	430	314
155°	533	526	496	474	466	246
165°	548	555	540	540	540	156
175°	555	563	563	570	570	53
180°	563	563	563	563	563	



TEST NUMBER: P520725

CATALOG NUMBER: 8WSLA-200-L830-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5146.0	5146.0	5146.0	5146.0	5146.0
2.5°	5160.8	5146.0	5109.0	5146.0	5138.6
5°	5146.0	5131.2	5086.8	5123.8	5116.4
7.5°	5123.8	5109.0	5064.5	5109.0	5101.6
10°	5101.6	5086.8	5042.3	5072.0	5049.7
12.5°	5064.5	5049.7	4997.9	4960.9	4916.5
15°	5012.7	5005.3	4916.5	4827.6	4783.2
17.5°	4968.3	4946.1	4805.4	4701.7	4649.9
20°	4909.1	4872.0	4686.9	4568.5	4531.4
22.5°	4842.4	4783.2	4561.1	4450.0	4420.4
25°	4746.2	4686.9	4435.2	4316.7	4287.1
27.5°	4649.9	4575.9	4309.3	4190.8	4161.2
30°	4546.2	4442.6	4168.6	4057.6	4005.7
32.5°	4427.8	4324.1	4035.3	3909.5	3850.2
35°	4287.1	4176.0	3887.3	3746.6	3687.3
37.5°	4153.8	4035.3	3739.2	3583.7	3502.2
40°	3990.9	3872.5	3568.9	3398.6	3317.1
42.5°	3820.6	3709.6	3406.0	3198.7	2998.7
45°	3635.5	3531.9	3220.9	2932.1	2554.5
47.5°	3443.0	3354.2	3050.6	2658.1	2295.3
50°	3250.5	3161.6	2865.5	2399.0	2095.4
52.5°	3058.0	2983.9	2658.1	2184.3	1932.5
55°	2843.3	2776.6	2473.0	1977.0	1799.2
57.5°	2650.7	2584.1	2258.3	1806.7	1658.6
60°	2436.0	2376.8	2058.4	1636.4	1525.3
62.5°	2236.1	2169.5	1858.5	1488.3	1406.8
65°	2028.8	1954.7	1666.0	1340.2	1288.4
67.5°	1814.1	1740.0	1480.9	1206.9	1177.3
70°	1599.3	1540.1	1295.8	1073.6	1058.8
72.5°	1377.2	1310.6	1110.6	947.8	947.8
75°	1155.1	1095.8	932.9	807.1	807.1
77.5°	925.5	895.9	747.8	659.0	666.4
80°	725.6	688.6	562.7	503.5	503.5
82.5°	533.1	488.7	377.6	333.2	348.0
85°	333.2	274.0	199.9	170.3	170.3
87.5°	103.7	81.4	59.2	66.6	66.6
90°	14.8	51.8	81.4	103.7	111.1
92.5°	37.0	96.3	118.5	140.7	148.1
95°	59.2	125.9	170.3	177.7	177.7
97.5°	81.4	140.7	207.3	236.9	236.9
100°	111.1	148.1	222.1	266.6	274.0
102.5°	140.7	162.9	236.9	281.4	296.2
105°	170.3	177.7	251.7	296.2	311.0



TEST NUMBER: P520725

CATALOG NUMBER: 8WSLA-200-L830-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	251.7	222.1	281.4	333.2	348.0
115°	281.4	236.9	296.2	340.6	362.8
117.5°	303.6	259.2	311.0	355.4	370.2
120°	325.8	274.0	318.4	370.2	385.0
122.5°	355.4	288.8	333.2	377.6	399.8
125°	377.6	303.6	340.6	392.4	407.2
127.5°	399.8	333.2	348.0	399.8	414.6
130°	414.6	362.8	355.4	407.2	422.0
132.5°	436.9	385.0	362.8	414.6	429.5
135°	451.7	407.2	377.6	414.6	436.9
137.5°	466.5	429.5	377.6	414.6	429.5
140°	481.3	451.7	385.0	414.6	429.5
142.5°	488.7	466.5	392.4	414.6	429.5
145°	503.5	481.3	422.0	414.6	429.5
147.5°	510.9	496.1	444.3	414.6	429.5
150°	518.3	510.9	466.5	422.0	422.0
152.5°	525.7	518.3	481.3	451.7	436.9
155°	533.1	525.7	496.1	473.9	466.5
157.5°	540.5	540.5	510.9	496.1	488.7
160°	540.5	547.9	525.7	510.9	503.5
162.5°	547.9	555.3	533.1	525.7	518.3
165°	547.9	555.3	540.5	540.5	540.5
167.5°	555.3	562.7	555.3	547.9	547.9
170°	555.3	562.7	555.3	555.3	555.3
172.5°	555.3	562.7	562.7	562.7	562.7
175°	555.3	562.7	562.7	570.1	570.1
177.5°	555.3	562.7	562.7	562.7	562.7
180°	562.7	562.7	562.7	562.7	562.7



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	199.9	192.5	259.2	311.0	325.8
110°	222.1	207.3	274.0	318.4	333.2



(END OF REPORT)