

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: P520748

Luminaire Tested: **8WSLA-50-L830-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: P520748
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-50-L830-UPL15-UNV-U
Description: 8 FOOT, 1000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

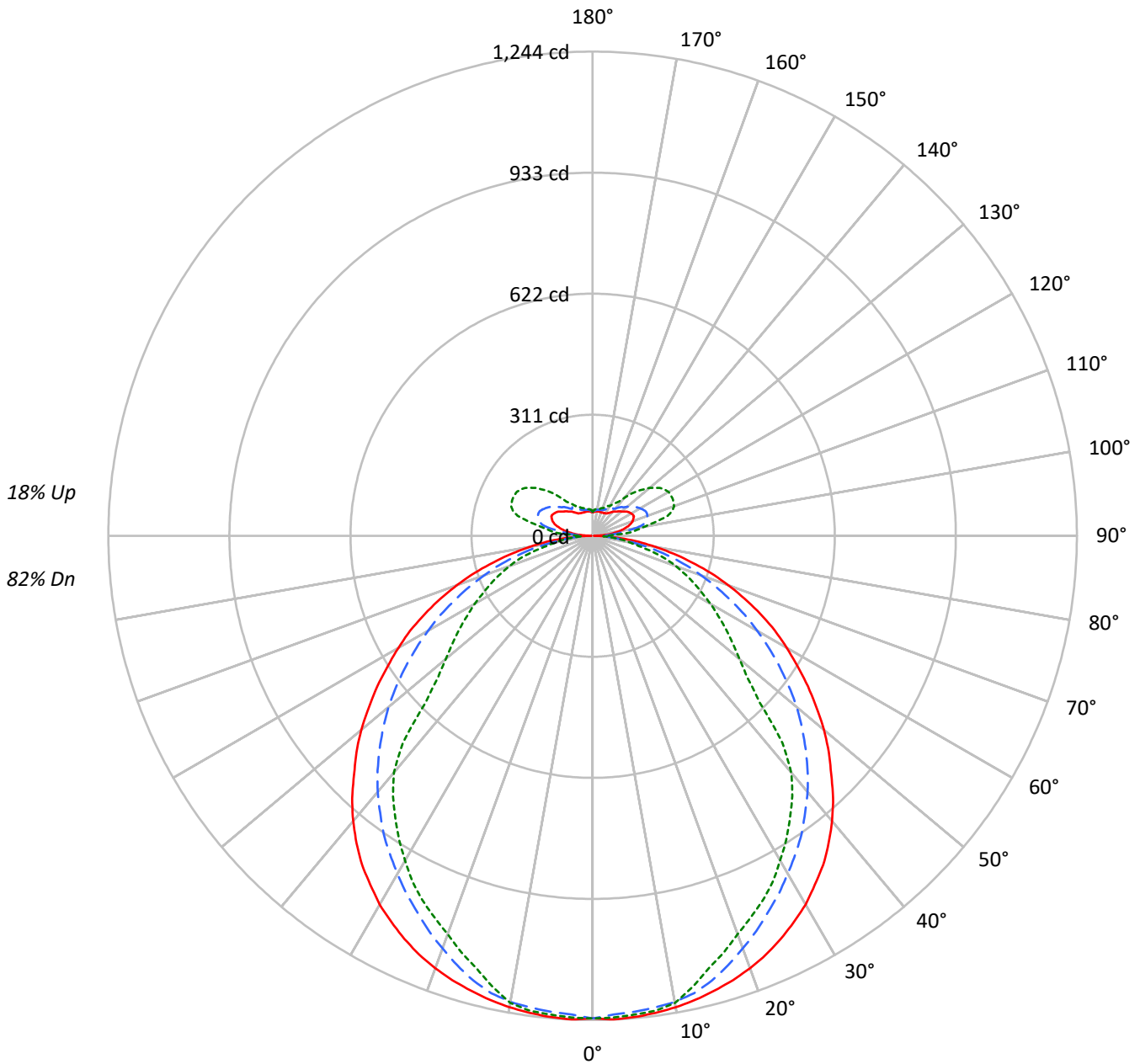
Lumens per Lamp: N/A
Luminaire Lumens: 4016.0 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 30.5
Input Voltage (V): NR
Input Current (Ain): 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°	3337	3337	3337
5°	3353	3316	3336
10°	3361	3323	3330
15°	3370	3297	3206
20°	3385	3231	3119
25°	3394	3167	3070
30°	3400	3114	2993
35°	3392	3074	2904
40°	3362	3018	2788
45°	3298	2943	2312
50°	3249	2864	2058
55°	3169	2750	1959
60°	3100	2626	1882
65°	3027	2483	1826
70°	2909	2325	1791
75°	2746	2131	1648
80°	2514	1793	1461
85°	2251	1553	1476



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.5	2.9
10°-20°	333.8	8.3
20°-30°	498.2	12.4
30°-40°	593.6	14.8
40°-50°	590.5	14.7
50°-60°	506.1	12.6
60°-70°	381.1	9.5
70°-80°	220.7	5.5
80°-90°	66.3	1.7
90°-100°	71.2	1.8
100°-110°	146.3	3.6
110°-120°	154.7	3.9
120°-130°	129.0	3.2
130°-140°	90.1	2.2
140°-150°	56.1	1.4
150°-160°	34.8	0.9
160°-170°	19.6	0.5
170°-180°	6.3	0.2
0°-30°	949.6	23.6
0°-40°	1543.2	38.4
0°-60°	2639.8	65.7
0°-90°	3308.0	82.4
90°-120°	372.1	9.3
90°-150°	647.4	16.1
90°-180°	708.0	17.6
0°-180°	4016.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1240	1240	1240	1240	1240	
5°	1241	1238	1228	1236	1235	118
15°	1210	1209	1183	1163	1151	342
25°	1143	1127	1066	1040	1034	527
35°	1032	1005	936	899	884	645
45°	866	845	773	697	607	670
55°	675	665	586	465	418	604
65°	475	464	390	303	287	470
75°	264	255	205	164	158	280
85°	73	64	50	48	48	78
90°	4	18	30	38	40	7
95°	40	54	62	90	98	38
105°	94	98	141	189	200	98
115°	117	99	150	206	226	114
125°	108	96	130	190	214	96
135°	88	96	104	141	162	69
145°	72	83	90	97	103	46
155°	65	69	74	80	82	30
165°	64	67	69	72	72	18
175°	63	64	65	67	68	6
180°	62	62	62	62	62	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1240.0	1240.0	1240.0	1240.0	1240.0
2.5°	1243.8	1241.3	1231.2	1241.3	1238.8
5°	1241.3	1237.5	1227.5	1236.3	1235.0
7.5°	1236.3	1233.7	1222.4	1232.5	1231.2
10°	1230.0	1226.2	1216.1	1223.7	1218.6
12.5°	1221.2	1218.6	1203.6	1197.3	1187.2
15°	1209.8	1208.6	1183.4	1163.3	1150.7
17.5°	1197.3	1192.2	1157.0	1133.1	1121.8
20°	1182.2	1174.6	1128.1	1100.4	1089.1
22.5°	1164.6	1153.3	1099.2	1072.8	1061.4
25°	1143.2	1126.8	1066.5	1040.1	1033.8
27.5°	1119.3	1100.4	1036.3	1009.9	1002.3
30°	1094.1	1070.2	1002.3	977.2	963.3
32.5°	1062.7	1040.1	969.6	940.7	925.6
35°	1032.5	1004.9	935.7	899.2	884.1
37.5°	996.0	968.4	896.7	860.2	842.6
40°	957.1	929.4	859.0	816.2	793.6
42.5°	914.3	889.1	817.5	765.9	721.9
45°	866.5	845.1	773.4	696.7	607.4
47.5°	822.5	802.4	729.4	630.1	538.3
50°	776.0	757.1	684.2	567.2	491.7
52.5°	724.4	710.6	635.1	513.1	452.7
55°	675.4	665.3	586.1	465.3	417.5
57.5°	623.8	613.7	537.0	420.1	382.3
60°	576.0	565.9	488.0	379.8	349.6
62.5°	528.2	514.4	440.2	340.8	315.7
65°	475.4	464.1	389.9	303.1	286.7
67.5°	422.6	412.5	343.3	267.9	256.6
70°	369.7	360.9	295.5	233.9	227.6
72.5°	318.2	306.9	252.8	200.0	197.4
75°	264.1	255.3	205.0	163.5	158.5
77.5°	212.5	205.0	161.0	124.5	120.7
80°	162.2	154.7	115.7	90.5	94.3
82.5°	119.5	109.4	78.0	70.4	74.2
85°	72.9	64.1	50.3	47.8	47.8
87.5°	25.2	23.9	22.6	26.4	27.7
90°	3.8	17.6	30.2	37.7	40.2
92.5°	21.4	31.4	41.5	49.0	51.6
95°	40.2	54.1	61.6	90.5	98.1
97.5°	55.3	71.7	80.5	106.9	114.4
100°	70.4	85.5	113.2	127.0	135.8
102.5°	83.0	94.3	133.3	161.0	166.0
105°	94.3	98.1	140.9	188.6	200.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	113.2	100.6	150.9	205.0	225.1
115°	117.0	99.4	149.7	206.3	226.4
117.5°	117.0	99.4	145.9	206.3	226.4
120°	114.4	100.6	140.9	203.7	225.1
122.5°	111.9	98.1	135.8	198.7	220.1
125°	108.2	95.6	129.5	189.9	213.8
127.5°	101.9	98.1	123.2	178.6	202.5
130°	96.8	99.4	115.7	167.3	191.2
132.5°	93.1	96.8	108.2	154.7	176.1
135°	88.0	95.6	104.4	140.9	162.2
137.5°	84.3	91.8	98.1	128.3	145.9
140°	80.5	89.3	91.8	111.9	127.0
142.5°	75.5	85.5	86.8	104.4	110.7
145°	71.7	83.0	90.5	96.8	103.1
147.5°	67.9	78.0	88.0	89.3	95.6
150°	66.7	72.9	84.3	85.5	88.0
152.5°	65.4	70.4	78.0	85.5	86.8
155°	65.4	69.2	74.2	80.5	81.7
157.5°	64.1	69.2	71.7	76.7	78.0
160°	64.1	67.9	70.4	74.2	75.5
162.5°	64.1	67.9	69.2	72.9	74.2
165°	64.1	66.7	69.2	71.7	71.7
167.5°	64.1	66.7	67.9	70.4	70.4
170°	64.1	65.4	67.9	69.2	69.2
172.5°	62.9	65.4	66.7	69.2	69.2
175°	62.9	64.1	65.4	66.7	67.9
177.5°	60.4	64.1	65.4	66.7	65.4
180°	61.6	61.6	61.6	61.6	61.6



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	103.1	99.4	145.9	198.7	215.1
110°	109.4	100.6	149.7	202.5	222.6



(END OF REPORT)