

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: P520614

Luminaire Tested: **4WSLA-75-L850-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: P520614
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: 4WSLA-75-L850-UPL8-UNV-U
Description: 4 FOOT, 750 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

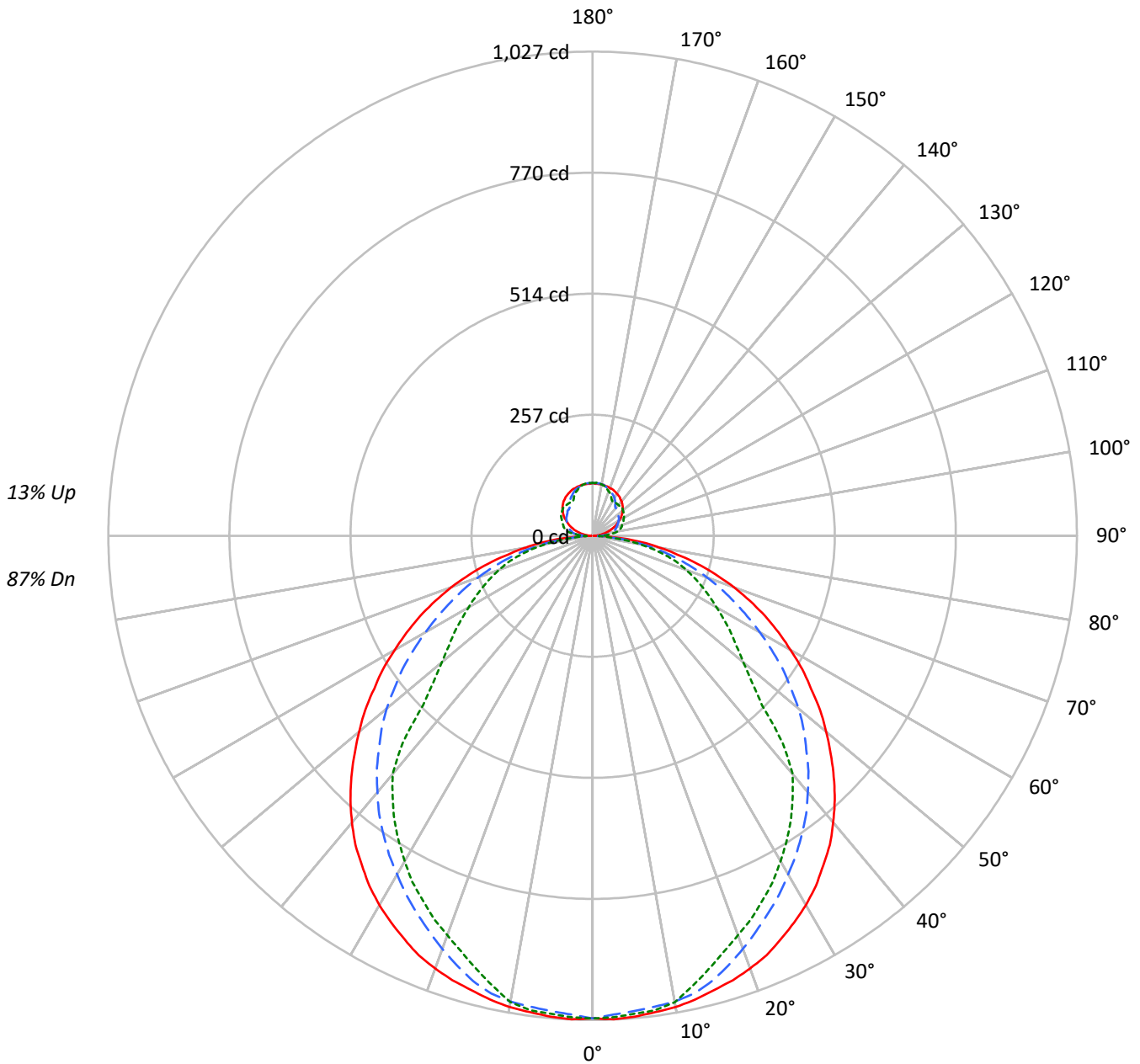
Lumens per Lamp: N/A
Luminaire Lumens: 3186.0 lumens
Efficiency: N/A
Efficacy: 137.3 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 23.2
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	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°	5510	5510	5510
5°	5531	5467	5499
10°	5546	5482	5490
15°	5556	5450	5302
20°	5593	5340	5163
25°	5607	5239	5065
30°	5620	5154	4952
35°	5604	5081	4820
40°	5578	4988	4636
45°	5504	4877	3868
50°	5414	4773	3491
55°	5307	4617	3358
60°	5216	4408	3266
65°	5140	4220	3264
70°	5007	4057	3314
75°	4779	3859	3340
80°	4475	3468	3106
85°	4094	2458	2093



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.9	3.0
10°-20°	275.5	8.6
20°-30°	411.7	12.9
30°-40°	491.5	15.4
40°-50°	491.5	15.4
50°-60°	425.4	13.4
60°-70°	326.5	10.2
70°-80°	200.1	6.3
80°-90°	56.3	1.8
90°-100°	31.8	1.0
100°-110°	50.5	1.6
110°-120°	59.1	1.9
120°-130°	63.8	2.0
130°-140°	62.8	2.0
140°-150°	55.6	1.7
150°-160°	45.7	1.4
160°-170°	30.6	1.0
170°-180°	10.7	0.3
0°-30°	784.2	24.6
0°-40°	1275.6	40.0
0°-60°	2192.5	68.8
0°-90°	2775.4	87.1
90°-120°	141.4	4.4
90°-150°	323.6	10.2
90°-180°	411.0	12.9
0°-180°	3186.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1024	1024	1024	1024	1024	
5°	1024	1021	1012	1019	1018	97
15°	997	996	978	960	952	282
25°	944	932	882	859	853	436
35°	853	831	773	745	734	534
45°	723	703	641	583	508	558
55°	566	552	492	393	358	507
65°	404	389	331	267	256	399
75°	230	218	186	161	161	242
85°	66	54	40	34	34	69
90°	3	10	16	21	22	5
95°	12	25	34	35	35	12
105°	34	35	50	59	62	36
115°	56	47	59	68	72	55
125°	75	60	68	78	81	67
135°	90	81	75	82	87	69
145°	100	96	84	82	85	62
155°	106	105	99	94	93	49
165°	109	110	108	108	108	31
175°	110	112	112	113	113	11
180°	112	112	112	112	112	



TEST NUMBER: P520614

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1023.7	1023.7	1023.7	1023.7	1023.7
2.5°	1026.7	1023.7	1016.4	1023.7	1022.3
5°	1023.7	1020.8	1012.0	1019.3	1017.8
7.5°	1019.3	1016.4	1007.5	1016.4	1014.9
10°	1014.9	1012.0	1003.1	1009.0	1004.6
12.5°	1007.5	1004.6	994.3	986.9	978.1
15°	997.2	995.7	978.1	960.4	951.6
17.5°	988.4	984.0	956.0	935.4	925.0
20°	976.6	969.2	932.4	908.8	901.5
22.5°	963.3	951.6	907.4	885.3	879.4
25°	944.2	932.4	882.3	858.8	852.9
27.5°	925.0	910.3	857.3	833.7	827.8
30°	904.4	883.8	829.3	807.2	796.9
32.5°	880.9	860.2	802.8	777.7	766.0
35°	852.9	830.8	773.3	745.3	733.6
37.5°	826.4	802.8	743.9	712.9	696.7
40°	793.9	770.4	710.0	676.1	659.9
42.5°	760.1	738.0	677.6	636.3	596.6
45°	723.2	702.6	640.8	583.3	508.2
47.5°	684.9	667.3	606.9	528.8	456.6
50°	646.6	629.0	570.1	477.3	416.9
52.5°	608.4	593.6	528.8	434.5	384.5
55°	565.6	552.4	492.0	393.3	357.9
57.5°	527.3	514.1	449.3	359.4	330.0
60°	484.6	472.8	409.5	325.5	303.4
62.5°	444.8	431.6	369.7	296.1	279.9
65°	403.6	388.9	331.4	266.6	256.3
67.5°	360.9	346.2	294.6	240.1	234.2
70°	318.2	306.4	257.8	213.6	210.6
72.5°	274.0	260.7	221.0	188.5	188.5
75°	229.8	218.0	185.6	160.6	160.6
77.5°	184.1	178.2	148.8	131.1	132.6
80°	144.4	137.0	111.9	100.2	100.2
82.5°	106.1	97.2	75.1	66.3	69.2
85°	66.3	54.5	39.8	33.9	33.9
87.5°	20.6	16.2	11.8	13.3	13.3
90°	2.9	10.3	16.2	20.6	22.1
92.5°	7.4	19.1	23.6	28.0	29.5
95°	11.8	25.0	33.9	35.4	35.4
97.5°	16.2	28.0	41.2	47.1	47.1
100°	22.1	29.5	44.2	53.0	54.5
102.5°	28.0	32.4	47.1	56.0	58.9
105°	33.9	35.4	50.1	58.9	61.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	50.1	44.2	56.0	66.3	69.2
115°	56.0	47.1	58.9	67.8	72.2
117.5°	60.4	51.6	61.9	70.7	73.7
120°	64.8	54.5	63.3	73.7	76.6
122.5°	70.7	57.4	66.3	75.1	79.5
125°	75.1	60.4	67.8	78.1	81.0
127.5°	79.5	66.3	69.2	79.5	82.5
130°	82.5	72.2	70.7	81.0	84.0
132.5°	86.9	76.6	72.2	82.5	85.4
135°	89.9	81.0	75.1	82.5	86.9
137.5°	92.8	85.4	75.1	82.5	85.4
140°	95.7	89.9	76.6	82.5	85.4
142.5°	97.2	92.8	78.1	82.5	85.4
145°	100.2	95.7	84.0	82.5	85.4
147.5°	101.6	98.7	88.4	82.5	85.4
150°	103.1	101.6	92.8	84.0	84.0
152.5°	104.6	103.1	95.7	89.9	86.9
155°	106.1	104.6	98.7	94.3	92.8
157.5°	107.5	107.5	101.6	98.7	97.2
160°	107.5	109.0	104.6	101.6	100.2
162.5°	109.0	110.5	106.1	104.6	103.1
165°	109.0	110.5	107.5	107.5	107.5
167.5°	110.5	111.9	110.5	109.0	109.0
170°	110.5	111.9	110.5	110.5	110.5
172.5°	110.5	111.9	111.9	111.9	111.9
175°	110.5	111.9	111.9	113.4	113.4
177.5°	110.5	111.9	111.9	111.9	111.9
180°	111.9	111.9	111.9	111.9	111.9



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	39.8	38.3	51.6	61.9	64.8
110°	44.2	41.2	54.5	63.3	66.3



(END OF REPORT)