

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: P520624

Luminaire Tested: **4WSLA-75-L950-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: P520624
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2002-689-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 4WSLA-75-L950-UNV-U
Description: 4 FOOT, 750 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 90 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

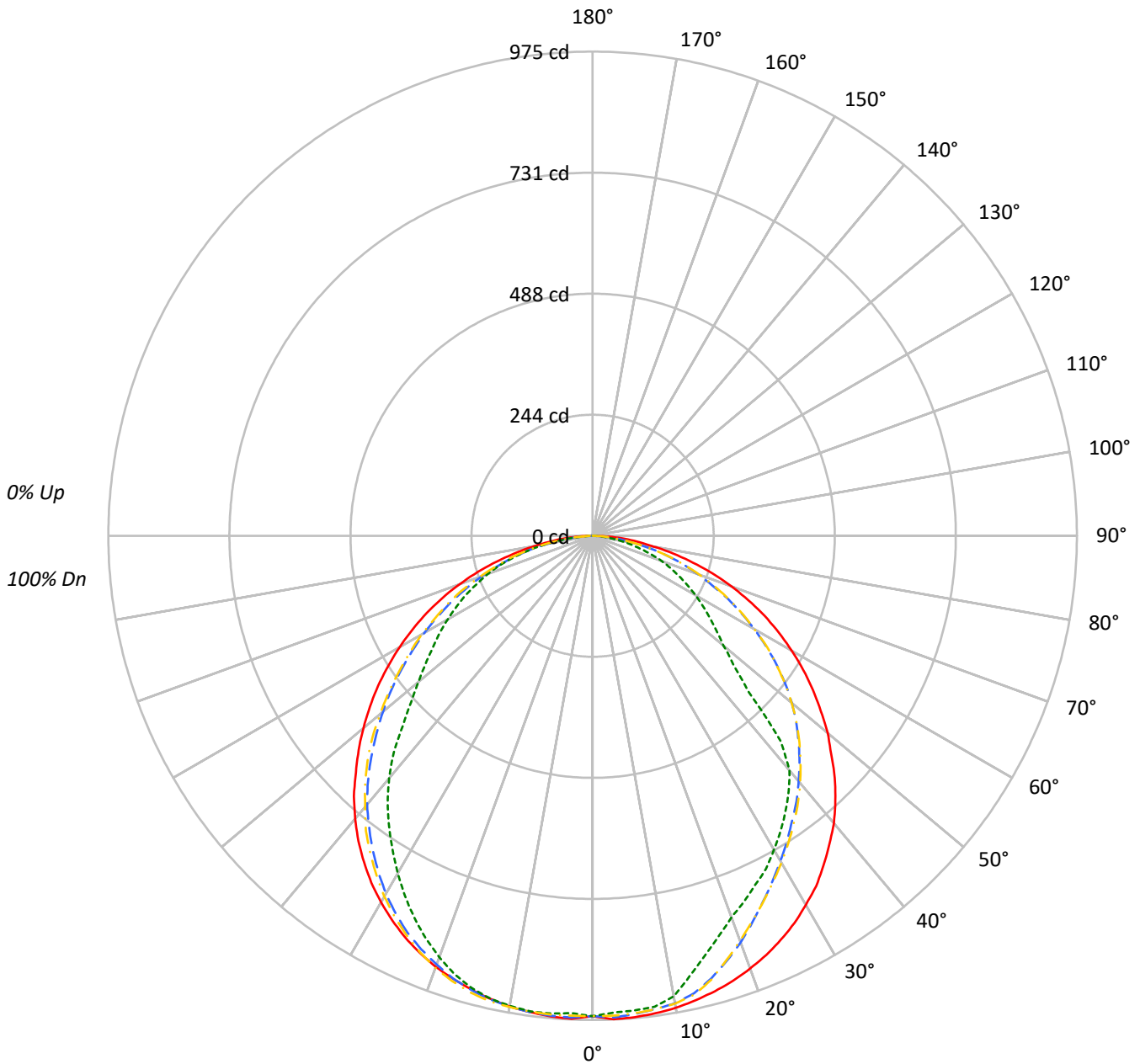
Lumens per Lamp: N/A
Luminaire Lumens: 2595.0 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.2
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84																			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70																			
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60																			
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51																			
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44																			
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39																			
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34																			
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31																			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28																			
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5206	5206	5206	5206
5°	5257	5184	5249	5218
10°	5275	5145	5261	5252
15°	5292	4872	5268	5251
20°	5312	4682	5290	5172
25°	5328	4604	5301	5042
30°	5334	4538	5295	4877
35°	5326	4449	5271	4695
40°	5309	4331	5225	4477
45°	5249	3365	5131	4108
50°	5171	2881	5045	3832
55°	5079	2698	4948	3686
60°	4983	2575	4832	3625
65°	4865	2439	4699	3582
70°	4670	2319	4475	3528
75°	4348	2040	4144	3356
80°	3859	1705	3620	2848
85°	3656	1216	3205	1636



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.9	3.5
10°-20°	262.2	10.1
20°-30°	391.7	15.1
30°-40°	466.3	18.0
40°-50°	466.1	18.0
50°-60°	401.1	15.5
60°-70°	301.9	11.6
70°-80°	172.0	6.6
80°-90°	41.9	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	745.8	28.7
0°-40°	1212.1	46.7
0°-60°	2079.2	80.1
0°-90°	2595.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2595.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	967	967	967	967	967	
5°	973	960	972	966	973	93
15°	950	874	946	942	950	268
25°	897	775	893	849	897	414
35°	811	677	802	715	811	507
45°	690	442	674	540	690	531
55°	541	288	527	393	541	484
65°	382	192	369	281	382	377
75°	209	98	199	161	209	221
85°	59	20	52	26	59	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	967.3	967.3	967.3	967.3	967.3	967.3	967.3	967.3	967.3	967.3	967.3
2.5°	974.6	965.8	971.0	969.4	961.1	964.2	967.3	964.2	973.6	965.3	971.0
5°	973.0	963.7	966.8	963.7	959.5	960.6	965.3	962.1	971.5	962.7	969.9
7.5°	969.9	958.5	961.6	960.1	956.4	957.0	961.6	959.0	967.3	959.0	967.3
10°	965.3	953.3	955.9	949.2	941.4	947.1	956.4	953.8	962.7	953.3	962.7
12.5°	958.0	946.1	943.5	921.1	907.1	918.0	946.6	946.6	954.9	946.1	955.9
15°	949.7	936.7	922.7	889.0	874.4	885.3	924.8	938.3	945.5	936.7	946.6
17.5°	939.8	924.8	897.8	858.3	844.9	855.8	896.2	925.8	935.2	925.8	934.6
20°	927.4	909.7	871.3	826.2	817.4	827.2	867.7	910.8	923.7	912.3	918.5
22.5°	913.9	892.6	841.7	801.3	797.1	803.3	840.2	892.1	909.2	897.3	901.4
25°	897.3	872.4	812.2	778.4	775.3	778.9	813.2	870.3	892.6	880.1	881.7
27.5°	879.6	852.6	784.1	759.2	756.1	757.7	786.2	845.9	873.4	860.9	858.3
30°	858.3	829.3	756.1	733.3	730.2	735.9	760.3	821.0	852.1	839.7	831.9
32.5°	837.1	803.9	728.6	711.0	704.7	709.9	733.3	795.0	828.8	815.8	802.8
35°	810.6	776.9	700.1	682.4	677.2	682.9	706.3	768.1	802.3	789.3	771.7
37.5°	783.1	748.3	674.1	658.0	648.7	655.4	678.8	740.0	774.8	761.3	739.5
40°	755.6	718.2	645.1	628.5	616.5	626.4	650.2	710.4	743.7	731.2	706.3
42.5°	723.4	688.1	616.5	593.2	559.4	591.1	619.6	680.9	711.5	699.5	669.5
45°	689.7	656.0	586.4	529.9	442.1	535.0	588.5	649.7	674.1	662.7	630.0
47.5°	651.3	622.7	555.8	469.7	384.5	474.8	556.8	620.2	638.8	626.4	590.1
50°	617.6	589.5	523.6	418.8	344.1	424.5	523.1	586.9	602.5	591.1	550.6
52.5°	579.2	554.8	488.9	373.6	314.0	379.4	487.8	552.7	565.1	551.6	511.2
55°	541.3	519.5	452.0	333.7	287.5	338.9	451.0	517.4	527.3	511.7	469.7
57.5°	502.9	483.1	414.1	297.9	263.1	303.6	416.7	481.1	487.8	468.1	429.7
60°	462.9	446.3	375.7	266.2	239.2	270.9	374.7	444.7	448.9	427.6	390.8
62.5°	422.9	407.9	337.3	237.2	214.8	240.3	339.9	406.3	408.9	388.7	350.8
65°	382.0	367.9	300.0	206.5	191.5	211.7	302.6	366.4	369.0	346.1	311.9
67.5°	339.4	328.0	260.0	183.2	169.2	184.7	265.2	325.9	327.5	305.1	274.0
70°	296.8	287.0	224.7	157.8	147.4	158.3	228.3	281.3	284.4	260.5	235.6
72.5°	253.2	245.5	190.5	131.3	122.0	131.3	192.5	240.3	242.4	222.6	198.2
75°	209.1	203.4	155.7	105.3	98.1	104.8	156.7	199.3	199.3	180.6	161.4
77.5°	166.6	162.4	119.4	81.0	75.8	79.9	119.9	157.8	156.7	142.2	127.1
80°	124.5	121.4	85.6	58.6	55.0	57.1	85.6	116.8	116.8	106.4	88.2
82.5°	89.3	85.6	56.6	38.4	36.3	37.4	55.5	81.5	83.0	75.2	59.7
85°	59.2	50.9	30.6	21.3	19.7	20.2	29.1	47.2	51.9	43.6	31.1
87.5°	25.9	17.1	7.8	3.1	1.6	2.1	6.2	15.0	19.7	13.0	4.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	967.3	967.3	967.3	967.3	967.3	967.3
2.5°	970.4	962.1	965.3	967.3	965.3	974.6
5°	969.4	965.8	965.3	967.8	963.7	973.0
7.5°	967.8	965.8	965.3	966.3	961.1	969.9
10°	964.2	961.1	962.1	963.7	957.0	965.3
12.5°	957.5	954.4	954.9	960.1	950.7	958.0
15°	946.1	942.4	946.1	951.8	943.5	949.7
17.5°	931.0	925.3	931.5	940.3	934.1	939.8
20°	911.8	903.0	909.7	925.8	920.1	927.4
22.5°	888.4	877.6	884.3	907.7	906.1	913.9
25°	862.0	849.0	858.3	886.9	890.0	897.3
27.5°	832.4	817.9	830.3	864.1	871.3	879.6
30°	800.2	784.7	799.2	838.6	849.5	858.3
32.5°	767.0	749.9	766.5	810.1	825.7	837.1
35°	732.2	714.6	733.3	780.5	799.2	810.6
37.5°	694.9	677.8	698.0	749.4	771.7	783.1
40°	656.5	637.3	660.1	712.5	742.1	755.6
42.5°	617.0	593.2	621.2	677.8	709.9	723.4
45°	572.9	539.7	577.6	640.9	674.6	689.7
47.5°	528.8	495.6	534.0	601.5	637.8	651.3
50°	486.3	457.7	488.3	558.4	600.4	617.6
52.5°	447.3	424.0	449.9	516.4	562.0	579.2
55°	411.0	392.8	414.1	474.8	521.5	541.3
57.5°	376.8	365.3	379.9	435.4	484.2	502.9
60°	344.6	336.8	347.2	396.5	440.1	462.9
62.5°	312.9	308.8	316.6	355.5	399.1	422.9
65°	282.3	281.3	285.4	319.7	356.0	382.0
67.5°	251.7	251.2	253.8	281.8	314.0	339.4
70°	221.1	224.2	222.6	240.8	271.9	296.8
72.5°	189.9	194.6	192.0	203.4	233.5	253.2
75°	155.2	161.4	156.2	169.2	187.9	209.1
77.5°	119.4	126.1	119.9	131.3	151.5	166.6
80°	85.6	91.9	86.7	95.5	113.1	124.5
82.5°	54.0	58.6	54.5	63.3	81.0	89.3
85°	23.9	26.5	27.5	34.3	49.8	59.2
87.5°	1.0	0.5	1.0	6.7	17.6	25.9
90°	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270° - · - · 135°-315°









(END OF REPORT)