

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: P520615

Luminaire Tested: **4WSLA-75-L930-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: P520615
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-L930-UNV-U
Description: 4 FOOT, 750 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 90 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

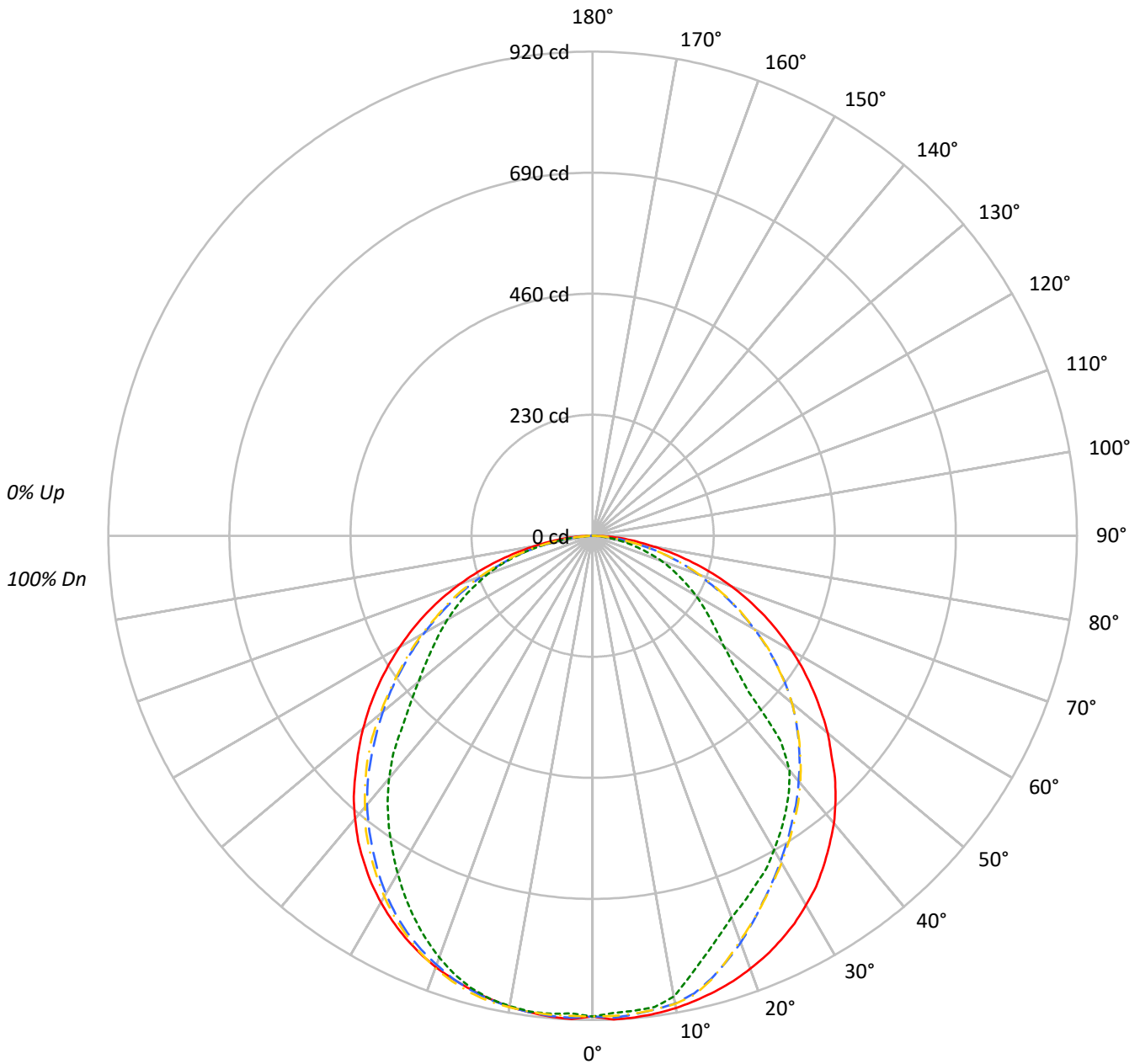
Lumens per Lamp: N/A
Luminaire Lumens: 2450.0 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

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°	4915	4915	4915	4915
5°	4963	4894	4955	4926
10°	4980	4857	4967	4959
15°	4996	4600	4974	4958
20°	5015	4420	4995	4883
25°	5030	4347	5004	4760
30°	5036	4284	5000	4604
35°	5028	4201	4977	4433
40°	5012	4090	4933	4227
45°	4956	3177	4845	3879
50°	4881	2719	4762	3618
55°	4795	2547	4671	3480
60°	4704	2432	4562	3423
65°	4592	2302	4437	3382
70°	4411	2189	4225	3331
75°	4107	1926	3911	3169
80°	3645	1609	3415	2687
85°	3452	1149	3026	1544



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.8	3.5
10°-20°	247.5	10.1
20°-30°	369.8	15.1
30°-40°	440.2	18.0
40°-50°	440.0	18.0
50°-60°	378.6	15.5
60°-70°	285.0	11.6
70°-80°	162.4	6.6
80°-90°	39.5	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°	704.1	28.7
0°-40°	1144.4	46.7
0°-60°	1963.1	80.1
0°-90°	2450.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2450.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	913	913	913	913	913	
5°	919	906	917	912	919	87
15°	897	826	893	890	897	253
25°	847	732	843	802	847	391
35°	765	639	758	675	765	479
45°	651	417	636	510	651	501
55°	511	271	498	371	511	457
65°	361	181	348	266	361	356
75°	198	93	188	152	198	209
85°	56	19	49	25	56	61
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°	913.3	913.3	913.3	913.3	913.3	913.3	913.3	913.3	913.3	913.3	913.3
2.5°	920.1	911.8	916.7	915.2	907.4	910.3	913.3	910.3	919.2	911.3	916.7
5°	918.7	909.8	912.8	909.8	905.9	906.9	911.3	908.4	917.2	908.9	915.7
7.5°	915.7	904.9	907.9	906.4	903.0	903.5	907.9	905.4	913.3	905.4	913.3
10°	911.3	900.1	902.5	896.1	888.8	894.2	903.0	900.5	908.9	900.1	908.9
12.5°	904.5	893.2	890.7	869.7	856.4	866.7	893.7	893.7	901.5	893.2	902.5
15°	896.6	884.4	871.1	839.3	825.6	835.9	873.1	885.8	892.7	884.4	893.7
17.5°	887.3	873.1	847.6	810.4	797.6	807.9	846.2	874.1	882.9	874.1	882.4
20°	875.6	858.9	822.6	780.0	771.7	781.0	819.2	859.9	872.1	861.3	867.2
22.5°	862.8	842.7	794.7	756.5	752.6	758.5	793.2	842.2	858.4	847.1	851.1
25°	847.1	823.6	766.8	734.9	732.0	735.4	767.8	821.7	842.7	831.0	832.4
27.5°	830.5	805.0	740.3	716.8	713.9	715.3	742.3	798.6	824.6	812.8	810.4
30°	810.4	783.0	713.9	692.3	689.4	694.8	717.8	775.1	804.5	792.7	785.4
32.5°	790.3	758.9	687.9	671.2	665.4	670.3	692.3	750.6	782.5	770.2	758.0
35°	765.3	733.5	661.0	644.3	639.4	644.8	666.8	725.1	757.5	745.2	728.6
37.5°	739.3	706.5	636.5	621.3	612.4	618.8	640.9	698.7	731.5	718.8	698.2
40°	713.4	678.1	609.0	593.3	582.1	591.4	613.9	670.8	702.1	690.3	666.8
42.5°	683.0	649.7	582.1	560.0	528.2	558.1	585.0	642.8	671.7	660.5	632.0
45°	651.2	619.3	553.7	500.2	417.4	505.1	555.6	613.4	636.5	625.7	594.8
47.5°	614.9	587.9	524.7	443.4	363.1	448.3	525.7	585.5	603.1	591.4	557.1
50°	583.0	556.6	494.4	395.4	324.8	400.8	493.9	554.1	568.8	558.1	519.8
52.5°	546.8	523.8	461.5	352.8	296.4	358.2	460.6	521.8	533.6	520.8	482.6
55°	511.0	490.4	426.8	315.0	271.4	319.9	425.8	488.5	497.8	483.1	443.4
57.5°	474.8	456.1	391.0	281.2	248.4	286.6	393.4	454.2	460.6	441.9	405.7
60°	437.0	421.4	354.7	251.3	225.9	255.8	353.7	419.9	423.8	403.7	368.9
62.5°	399.3	385.1	318.5	223.9	202.8	226.8	320.9	383.6	386.1	367.0	331.2
65°	360.6	347.4	283.2	195.0	180.8	199.9	285.6	345.9	348.4	326.8	294.5
67.5°	320.4	309.7	245.5	173.0	159.7	174.4	250.4	307.7	309.2	288.1	258.7
70°	280.3	270.9	212.2	148.9	139.1	149.4	215.6	265.6	268.5	246.0	222.4
72.5°	239.1	231.7	179.8	124.0	115.1	124.0	181.8	226.8	228.8	210.2	187.2
75°	197.5	192.1	147.0	99.5	92.6	99.0	148.0	188.1	188.1	170.5	152.4
77.5°	157.3	153.4	112.7	76.4	71.5	75.5	113.2	148.9	148.0	134.2	120.0
80°	117.6	114.6	80.8	55.4	51.9	53.9	80.8	110.2	110.2	100.4	83.3
82.5°	84.3	80.8	53.4	36.3	34.3	35.3	52.4	76.9	78.4	71.0	56.3
85°	55.9	48.0	28.9	20.1	18.6	19.1	27.4	44.6	49.0	41.2	29.4
87.5°	24.5	16.2	7.3	2.9	1.5	2.0	5.9	14.2	18.6	12.2	3.9
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°	913.3	913.3	913.3	913.3	913.3	913.3
2.5°	916.2	908.4	911.3	913.3	911.3	920.1
5°	915.2	911.8	911.3	913.8	909.8	918.7
7.5°	913.8	911.8	911.3	912.3	907.4	915.7
10°	910.3	907.4	908.4	909.8	903.5	911.3
12.5°	904.0	901.0	901.5	906.4	897.6	904.5
15°	893.2	889.8	893.2	898.6	890.7	896.6
17.5°	879.0	873.6	879.5	887.8	881.9	887.3
20°	860.9	852.5	858.9	874.1	868.7	875.6
22.5°	838.8	828.5	834.9	856.9	855.5	862.8
25°	813.8	801.6	810.4	837.3	840.3	847.1
27.5°	785.9	772.2	783.9	815.8	822.6	830.5
30°	755.5	740.8	754.5	791.8	802.1	810.4
32.5°	724.2	708.0	723.7	764.8	779.5	790.3
35°	691.3	674.7	692.3	736.9	754.5	765.3
37.5°	656.1	639.9	659.0	707.5	728.6	739.3
40°	619.8	601.7	623.2	672.7	700.6	713.4
42.5°	582.6	560.0	586.5	639.9	670.3	683.0
45°	540.9	509.6	545.3	605.1	636.9	651.2
47.5°	499.3	467.9	504.2	567.9	602.2	614.9
50°	459.1	432.1	461.0	527.2	566.9	583.0
52.5°	422.3	400.3	424.8	487.5	530.6	546.8
55°	388.0	370.9	391.0	448.3	492.4	511.0
57.5°	355.7	344.9	358.6	411.1	457.1	474.8
60°	325.3	318.0	327.8	374.3	415.5	437.0
62.5°	295.4	291.5	298.9	335.6	376.8	399.3
65°	266.5	265.6	269.5	301.8	336.1	360.6
67.5°	237.6	237.1	239.6	266.0	296.4	320.4
70°	208.7	211.7	210.2	227.3	256.7	280.3
72.5°	179.3	183.7	181.3	192.1	220.5	239.1
75°	146.5	152.4	147.5	159.7	177.4	197.5
77.5°	112.7	119.1	113.2	124.0	143.1	157.3
80°	80.8	86.7	81.8	90.2	106.8	117.6
82.5°	51.0	55.4	51.4	59.8	76.4	84.3
85°	22.5	25.0	26.0	32.3	47.0	55.9
87.5°	1.0	0.5	1.0	6.4	16.7	24.5
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)