

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: P520605

Luminaire Tested: **4WSLA-75-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: P520605
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-L830-UPL8-UNV-U
Description: 4 FOOT, 750 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

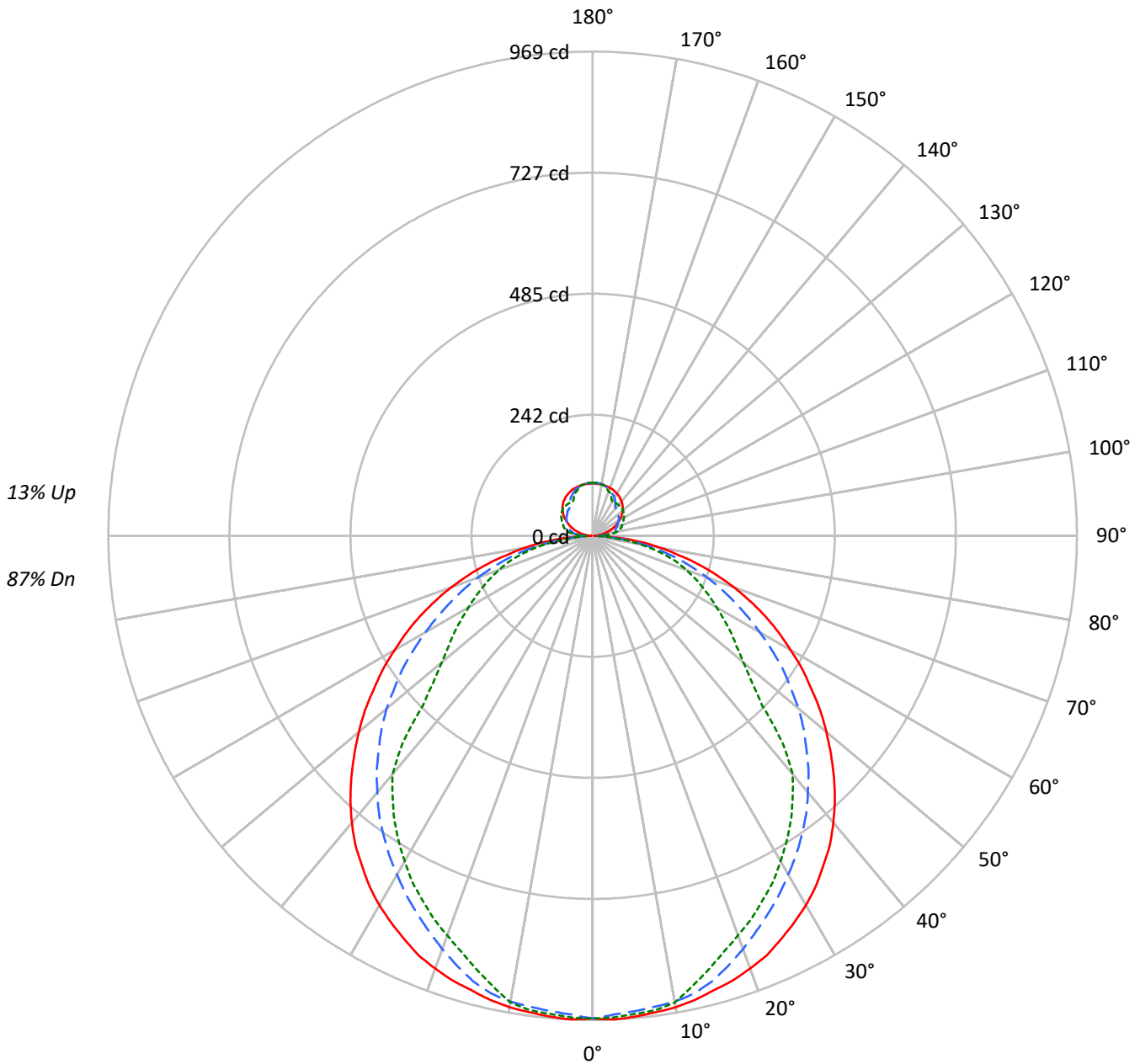
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3007.0 lumens
Efficiency: N/A
Efficacy: 129.6 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: 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°	5200	5200	5200
5°	5220	5160	5190
10°	5235	5174	5181
15°	5244	5143	5004
20°	5279	5040	4873
25°	5292	4945	4780
30°	5305	4864	4674
35°	5289	4796	4549
40°	5264	4708	4376
45°	5195	4603	3650
50°	5110	4505	3294
55°	5010	4357	3170
60°	4923	4160	3083
65°	4851	3983	3081
70°	4725	3829	3128
75°	4510	3643	3150
80°	4221	3276	2929
85°	3866	2316	1976



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.5	3.0
10°-20°	260.1	8.6
20°-30°	388.6	12.9
30°-40°	463.8	15.4
40°-50°	463.9	15.4
50°-60°	401.5	13.4
60°-70°	308.1	10.2
70°-80°	188.8	6.3
80°-90°	53.2	1.8
90°-100°	30.0	1.0
100°-110°	47.7	1.6
110°-120°	55.8	1.9
120°-130°	60.2	2.0
130°-140°	59.3	2.0
140°-150°	52.5	1.7
150°-160°	43.2	1.4
160°-170°	28.9	1.0
170°-180°	10.1	0.3
0°-30°	740.1	24.6
0°-40°	1203.9	40.0
0°-60°	2069.3	68.8
0°-90°	2619.4	87.1
90°-120°	133.5	4.4
90°-150°	305.5	10.2
90°-180°	388.0	12.9
0°-180°	3007.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	966	966	966	966	966	
5°	966	963	955	962	961	92
15°	941	940	923	906	898	266
25°	891	880	833	810	805	411
35°	805	784	730	704	692	504
45°	683	663	605	550	480	526
55°	534	521	464	371	338	479
65°	381	367	313	252	242	376
75°	217	206	175	152	152	229
85°	63	51	38	32	32	65
90°	3	10	15	20	21	4
95°	11	24	32	33	33	11
105°	32	33	47	56	58	34
115°	53	44	56	64	68	52
125°	71	57	64	74	76	63
135°	85	76	71	78	82	65
145°	94	90	79	78	81	59
155°	100	99	93	89	88	46
165°	103	104	102	102	102	29
175°	104	106	106	107	107	10
180°	106	106	106	106	106	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	966.2	966.2	966.2	966.2	966.2
2.5°	969.0	966.2	959.3	966.2	964.8
5°	966.2	963.4	955.1	962.0	960.7
7.5°	962.0	959.3	950.9	959.3	957.9
10°	957.9	955.1	946.8	952.3	948.1
12.5°	950.9	948.1	938.4	931.5	923.1
15°	941.2	939.8	923.1	906.4	898.1
17.5°	932.9	928.7	902.3	882.8	873.1
20°	921.7	914.8	880.0	857.8	850.8
22.5°	909.2	898.1	856.4	835.5	830.0
25°	891.1	880.0	832.8	810.5	805.0
27.5°	873.1	859.2	809.1	786.9	781.3
30°	853.6	834.1	782.7	761.9	752.1
32.5°	831.4	811.9	757.7	734.0	722.9
35°	805.0	784.1	729.9	703.5	692.3
37.5°	779.9	757.7	702.1	672.9	657.6
40°	749.3	727.1	670.1	638.1	622.8
42.5°	717.4	696.5	639.5	600.6	563.0
45°	682.6	663.1	604.8	550.5	479.6
47.5°	646.5	629.8	572.8	499.1	431.0
50°	610.3	593.6	538.0	450.4	393.4
52.5°	574.2	560.3	499.1	410.1	362.9
55°	533.9	521.3	464.3	371.2	337.8
57.5°	497.7	485.2	424.0	339.2	311.4
60°	457.4	446.3	386.5	307.2	286.4
62.5°	419.9	407.3	349.0	279.4	264.1
65°	380.9	367.0	312.8	251.6	241.9
67.5°	340.6	326.7	278.0	226.6	221.0
70°	300.3	289.2	243.3	201.6	198.8
72.5°	258.6	246.1	208.5	178.0	178.0
75°	216.9	205.8	175.2	151.5	151.5
77.5°	173.8	168.2	140.4	123.7	125.1
80°	136.2	129.3	105.7	94.5	94.5
82.5°	100.1	91.8	70.9	62.6	65.3
85°	62.6	51.4	37.5	32.0	32.0
87.5°	19.5	15.3	11.1	12.5	12.5
90°	2.8	9.7	15.3	19.5	20.9
92.5°	7.0	18.1	22.2	26.4	27.8
95°	11.1	23.6	32.0	33.4	33.4
97.5°	15.3	26.4	38.9	44.5	44.5
100°	20.9	27.8	41.7	50.0	51.4
102.5°	26.4	30.6	44.5	52.8	55.6
105°	32.0	33.4	47.3	55.6	58.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	47.3	41.7	52.8	62.6	65.3
115°	52.8	44.5	55.6	64.0	68.1
117.5°	57.0	48.7	58.4	66.7	69.5
120°	61.2	51.4	59.8	69.5	72.3
122.5°	66.7	54.2	62.6	70.9	75.1
125°	70.9	57.0	64.0	73.7	76.5
127.5°	75.1	62.6	65.3	75.1	77.9
130°	77.9	68.1	66.7	76.5	79.2
132.5°	82.0	72.3	68.1	77.9	80.6
135°	84.8	76.5	70.9	77.9	82.0
137.5°	87.6	80.6	70.9	77.9	80.6
140°	90.4	84.8	72.3	77.9	80.6
142.5°	91.8	87.6	73.7	77.9	80.6
145°	94.5	90.4	79.2	77.9	80.6
147.5°	95.9	93.1	83.4	77.9	80.6
150°	97.3	95.9	87.6	79.2	79.2
152.5°	98.7	97.3	90.4	84.8	82.0
155°	100.1	98.7	93.1	89.0	87.6
157.5°	101.5	101.5	95.9	93.1	91.8
160°	101.5	102.9	98.7	95.9	94.5
162.5°	102.9	104.3	100.1	98.7	97.3
165°	102.9	104.3	101.5	101.5	101.5
167.5°	104.3	105.7	104.3	102.9	102.9
170°	104.3	105.7	104.3	104.3	104.3
172.5°	104.3	105.7	105.7	105.7	105.7
175°	104.3	105.7	105.7	107.0	107.0
177.5°	104.3	105.7	105.7	105.7	105.7
180°	105.7	105.7	105.7	105.7	105.7



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	37.5	36.1	48.7	58.4	61.2
110°	41.7	38.9	51.4	59.8	62.6



(END OF REPORT)