

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: P520617

Luminaire Tested: **4WSLA-75-L930-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: P520617
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-L930-UPL8-UNV-U
Description: 4 FOOT, 750 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 90 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

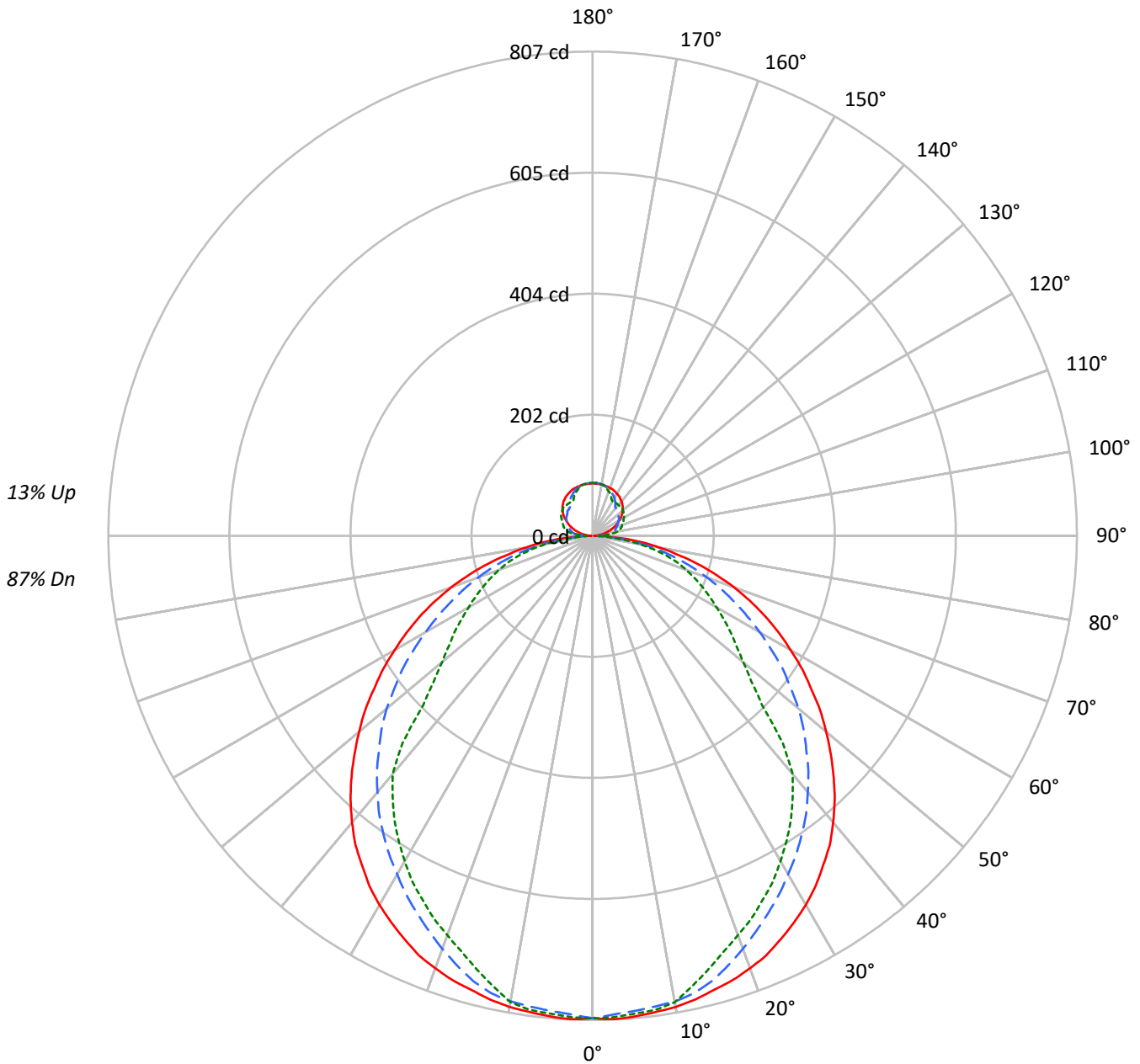
Lumens per Lamp: N/A
Luminaire Lumens: 2503.0 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

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	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°	4329	4329	4329
5°	4345	4295	4320
10°	4357	4307	4313
15°	4365	4281	4165
20°	4394	4195	4056
25°	4405	4116	3979
30°	4415	4049	3891
35°	4402	3991	3786
40°	4382	3919	3642
45°	4325	3831	3038
50°	4253	3749	2742
55°	4170	3627	2639
60°	4098	3463	2566
65°	4038	3316	2565
70°	3934	3186	2604
75°	3753	3032	2622
80°	3515	2724	2439
85°	3217	1927	1643



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.1	3.0
10°-20°	216.5	8.6
20°-30°	323.4	12.9
30°-40°	386.1	15.4
40°-50°	386.1	15.4
50°-60°	334.2	13.4
60°-70°	256.5	10.2
70°-80°	157.2	6.3
80°-90°	44.2	1.8
90°-100°	25.0	1.0
100°-110°	39.7	1.6
110°-120°	46.4	1.9
120°-130°	50.1	2.0
130°-140°	49.4	2.0
140°-150°	43.7	1.7
150°-160°	35.9	1.4
160°-170°	24.1	1.0
170°-180°	8.4	0.3
0°-30°	616.0	24.6
0°-40°	1002.1	40.0
0°-60°	1722.5	68.8
0°-90°	2180.4	87.1
90°-120°	111.1	4.4
90°-150°	254.2	10.2
90°-180°	323.0	12.9
0°-180°	2503.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	804	804	804	804	804	
5°	804	802	795	801	800	77
15°	783	782	768	754	748	222
25°	742	732	693	675	670	342
35°	670	653	608	586	576	420
45°	568	552	503	458	399	438
55°	444	434	386	309	281	398
65°	317	306	260	210	201	313
75°	180	171	146	126	126	190
85°	52	43	31	27	27	54
90°	2	8	13	16	17	4
95°	9	20	27	28	28	9
105°	27	28	39	46	49	28
115°	44	37	46	53	57	43
125°	59	47	53	61	64	53
135°	71	64	59	65	68	54
145°	79	75	66	65	67	49
155°	83	82	78	74	73	38
165°	86	87	84	84	84	24
175°	87	88	88	89	89	8
180°	88	88	88	88	88	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	804.3	804.3	804.3	804.3	804.3
2.5°	806.6	804.3	798.5	804.3	803.1
5°	804.3	802.0	795.0	800.8	799.6
7.5°	800.8	798.5	791.5	798.5	797.3
10°	797.3	795.0	788.1	792.7	789.2
12.5°	791.5	789.2	781.1	775.3	768.4
15°	783.4	782.3	768.4	754.5	747.6
17.5°	776.5	773.0	751.0	734.8	726.7
20°	767.2	761.5	732.5	714.0	708.2
22.5°	756.8	747.6	712.9	695.5	690.9
25°	741.8	732.5	693.2	674.7	670.0
27.5°	726.7	715.2	673.5	655.0	650.4
30°	710.5	694.3	651.5	634.2	626.1
32.5°	692.0	675.8	630.7	611.0	601.8
35°	670.0	652.7	607.5	585.6	576.3
37.5°	649.2	630.7	584.4	560.1	547.4
40°	623.7	605.2	557.8	531.2	518.4
42.5°	597.1	579.8	532.3	499.9	468.7
45°	568.2	552.0	503.4	458.3	399.2
47.5°	538.1	524.2	476.8	415.4	358.7
50°	508.0	494.1	447.8	374.9	327.5
52.5°	477.9	466.4	415.4	341.4	302.0
55°	444.4	434.0	386.5	309.0	281.2
57.5°	414.3	403.9	353.0	282.4	259.2
60°	380.7	371.5	321.7	255.7	238.4
62.5°	349.5	339.1	290.5	232.6	219.9
65°	317.1	305.5	260.4	209.5	201.4
67.5°	283.5	271.9	231.4	188.6	184.0
70°	250.0	240.7	202.5	167.8	165.5
72.5°	215.2	204.8	173.6	148.1	148.1
75°	180.5	171.3	145.8	126.1	126.1
77.5°	144.7	140.0	116.9	103.0	104.2
80°	113.4	107.6	87.9	78.7	78.7
82.5°	83.3	76.4	59.0	52.1	54.4
85°	52.1	42.8	31.2	26.6	26.6
87.5°	16.2	12.7	9.3	10.4	10.4
90°	2.3	8.1	12.7	16.2	17.4
92.5°	5.8	15.0	18.5	22.0	23.1
95°	9.3	19.7	26.6	27.8	27.8
97.5°	12.7	22.0	32.4	37.0	37.0
100°	17.4	23.1	34.7	41.7	42.8
102.5°	22.0	25.5	37.0	44.0	46.3
105°	26.6	27.8	39.3	46.3	48.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	39.3	34.7	44.0	52.1	54.4
115°	44.0	37.0	46.3	53.2	56.7
117.5°	47.4	40.5	48.6	55.5	57.9
120°	50.9	42.8	49.8	57.9	60.2
122.5°	55.5	45.1	52.1	59.0	62.5
125°	59.0	47.4	53.2	61.3	63.6
127.5°	62.5	52.1	54.4	62.5	64.8
130°	64.8	56.7	55.5	63.6	66.0
132.5°	68.3	60.2	56.7	64.8	67.1
135°	70.6	63.6	59.0	64.8	68.3
137.5°	72.9	67.1	59.0	64.8	67.1
140°	75.2	70.6	60.2	64.8	67.1
142.5°	76.4	72.9	61.3	64.8	67.1
145°	78.7	75.2	66.0	64.8	67.1
147.5°	79.8	77.5	69.4	64.8	67.1
150°	81.0	79.8	72.9	66.0	66.0
152.5°	82.2	81.0	75.2	70.6	68.3
155°	83.3	82.2	77.5	74.1	72.9
157.5°	84.5	84.5	79.8	77.5	76.4
160°	84.5	85.6	82.2	79.8	78.7
162.5°	85.6	86.8	83.3	82.2	81.0
165°	85.6	86.8	84.5	84.5	84.5
167.5°	86.8	87.9	86.8	85.6	85.6
170°	86.8	87.9	86.8	86.8	86.8
172.5°	86.8	87.9	87.9	87.9	87.9
175°	86.8	87.9	87.9	89.1	89.1
177.5°	86.8	87.9	87.9	87.9	87.9
180°	87.9	87.9	87.9	87.9	87.9



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	31.2	30.1	40.5	48.6	50.9
110°	34.7	32.4	42.8	49.8	52.1



(END OF REPORT)