

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: P520623

Luminaire Tested: **4WSLA-75-L940-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: P520623  
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-L940-UPL8-UNV-U  
Description: 4 FOOT, 750 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 90 CRI  
LEDS WITH 8% UPLIGHT  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

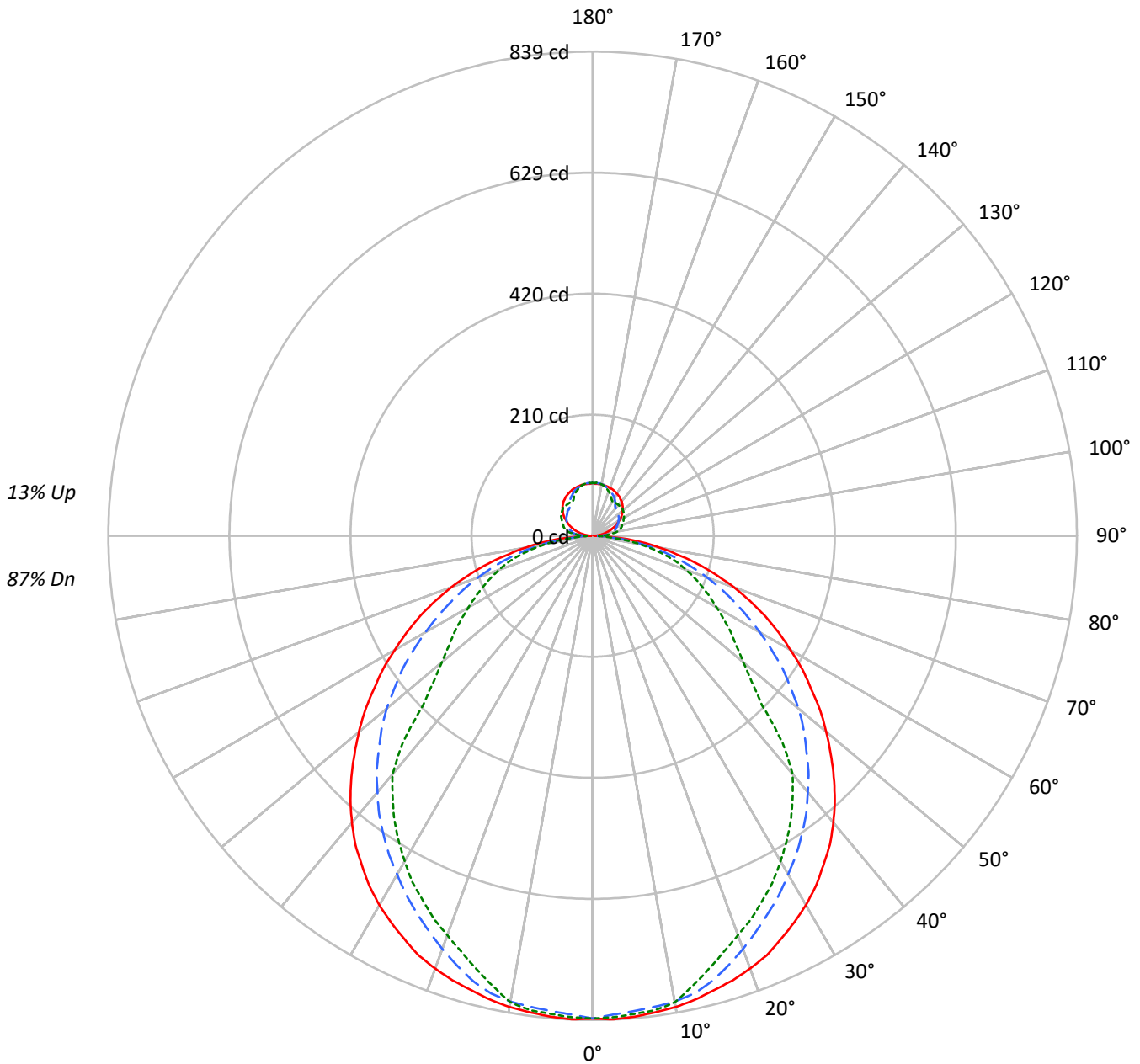
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2603.0 lumens  
Efficiency: N/A  
Efficacy: 112.2 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<sub>in</sub>): 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

TEST NUMBER: P520623  
CATALOG NUMBER: 4WSLA-75-L940-UPL8-UNV-U

### 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°	4501	4501	4501
5°	4519	4467	4493
10°	4532	4479	4486
15°	4539	4452	4332
20°	4570	4363	4218
25°	4581	4281	4138
30°	4592	4210	4046
35°	4578	4151	3937
40°	4558	4076	3788
45°	4497	3984	3160
50°	4423	3899	2852
55°	4336	3772	2744
60°	4261	3602	2668
65°	4199	3449	2667
70°	4090	3314	2708
75°	3903	3152	2728
80°	3654	2836	2535
85°	3347	2007	1711



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.2	3.0
10°-20°	225.1	8.6
20°-30°	336.4	12.9
30°-40°	401.5	15.4
40°-50°	401.6	15.4
50°-60°	347.5	13.4
60°-70°	266.7	10.2
70°-80°	163.4	6.3
80°-90°	46.0	1.8
90°-100°	26.0	1.0
100°-110°	41.3	1.6
110°-120°	48.3	1.9
120°-130°	52.1	2.0
130°-140°	51.3	2.0
140°-150°	45.4	1.7
150°-160°	37.4	1.4
160°-170°	25.0	1.0
170°-180°	8.7	0.3
0°-30°	640.7	24.6
0°-40°	1042.2	40.0
0°-60°	1791.3	68.8
0°-90°	2267.5	87.1
90°-120°	115.5	4.4
90°-150°	264.4	10.2
90°-180°	336.0	12.9
0°-180°	2603.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	836	836	836	836	836	
5°	836	834	827	833	832	80
15°	815	814	799	785	777	230
25°	771	762	721	702	697	356
35°	697	679	632	609	599	436
45°	591	574	524	477	415	456
55°	462	451	402	321	292	414
65°	330	318	271	218	209	326
75°	188	178	152	131	131	198
85°	54	44	32	28	28	57
90°	2	8	13	17	18	4
95°	10	20	28	29	29	9
105°	28	29	41	48	50	29
115°	46	38	48	55	59	45
125°	61	49	55	64	66	55
135°	73	66	61	67	71	57
145°	82	78	69	67	70	51
155°	87	85	81	77	76	40
165°	89	90	88	88	88	25
175°	90	92	92	93	93	9
180°	92	92	92	92	92	



TEST NUMBER: P520623

CATALOG NUMBER: 4WSLA-75-L940-UPL8-UNV-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	836.4	836.4	836.4	836.4	836.4
2.5°	838.8	836.4	830.4	836.4	835.2
5°	836.4	834.0	826.8	832.8	831.6
7.5°	832.8	830.4	823.2	830.4	829.2
10°	829.2	826.8	819.6	824.4	820.8
12.5°	823.2	820.8	812.3	806.3	799.1
15°	814.7	813.5	799.1	784.7	777.4
17.5°	807.5	803.9	781.0	764.2	755.8
20°	797.9	791.9	761.8	742.5	736.5
22.5°	787.1	777.4	741.3	723.3	718.5
25°	771.4	761.8	720.9	701.6	696.8
27.5°	755.8	743.7	700.4	681.2	676.3
30°	738.9	722.1	677.5	659.5	651.1
32.5°	719.7	702.8	655.9	635.4	625.8
35°	696.8	678.8	631.8	609.0	599.3
37.5°	675.1	655.9	607.7	582.5	569.2
40°	648.7	629.4	580.1	552.4	539.2
42.5°	621.0	602.9	553.6	519.9	487.4
45°	590.9	574.1	523.5	476.6	415.2
47.5°	559.6	545.2	495.8	432.0	373.1
50°	528.3	513.9	465.7	389.9	340.6
52.5°	497.0	485.0	432.0	355.0	314.1
55°	462.1	451.3	402.0	321.3	292.4
57.5°	430.8	420.0	367.1	293.6	269.6
60°	395.9	386.3	334.6	266.0	247.9
62.5°	363.4	352.6	302.1	241.9	228.7
65°	329.7	317.7	270.8	217.8	209.4
67.5°	294.8	282.8	240.7	196.2	191.4
70°	259.9	250.3	210.6	174.5	172.1
72.5°	223.8	213.0	180.5	154.0	154.0
75°	187.7	178.1	151.6	131.2	131.2
77.5°	150.4	145.6	121.5	107.1	108.3
80°	117.9	111.9	91.5	81.8	81.8
82.5°	86.6	79.4	61.4	54.2	56.6
85°	54.2	44.5	32.5	27.7	27.7
87.5°	16.8	13.2	9.6	10.8	10.8
90°	2.4	8.4	13.2	16.8	18.1
92.5°	6.0	15.6	19.3	22.9	24.1
95°	9.6	20.5	27.7	28.9	28.9
97.5°	13.2	22.9	33.7	38.5	38.5
100°	18.1	24.1	36.1	43.3	44.5
102.5°	22.9	26.5	38.5	45.7	48.1
105°	27.7	28.9	40.9	48.1	50.5



TEST NUMBER: P520623

CATALOG NUMBER: 4WSLA-75-L940-UPL8-UNV-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	40.9	36.1	45.7	54.2	56.6
115°	45.7	38.5	48.1	55.4	59.0
117.5°	49.3	42.1	50.5	57.8	60.2
120°	53.0	44.5	51.7	60.2	62.6
122.5°	57.8	46.9	54.2	61.4	65.0
125°	61.4	49.3	55.4	63.8	66.2
127.5°	65.0	54.2	56.6	65.0	67.4
130°	67.4	59.0	57.8	66.2	68.6
132.5°	71.0	62.6	59.0	67.4	69.8
135°	73.4	66.2	61.4	67.4	71.0
137.5°	75.8	69.8	61.4	67.4	69.8
140°	78.2	73.4	62.6	67.4	69.8
142.5°	79.4	75.8	63.8	67.4	69.8
145°	81.8	78.2	68.6	67.4	69.8
147.5°	83.0	80.6	72.2	67.4	69.8
150°	84.2	83.0	75.8	68.6	68.6
152.5°	85.4	84.2	78.2	73.4	71.0
155°	86.6	85.4	80.6	77.0	75.8
157.5°	87.9	87.9	83.0	80.6	79.4
160°	87.9	89.1	85.4	83.0	81.8
162.5°	89.1	90.3	86.6	85.4	84.2
165°	89.1	90.3	87.9	87.9	87.9
167.5°	90.3	91.5	90.3	89.1	89.1
170°	90.3	91.5	90.3	90.3	90.3
172.5°	90.3	91.5	91.5	91.5	91.5
175°	90.3	91.5	91.5	92.7	92.7
177.5°	90.3	91.5	91.5	91.5	91.5
180°	91.5	91.5	91.5	91.5	91.5



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	32.5	31.3	42.1	50.5	53.0
110°	36.1	33.7	44.5	51.7	54.2



(END OF REPORT)