

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: P520622

Luminaire Tested: **4WSLA-75-L940-UPL15-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: P520622  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-174-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 4WSLA-75-L940-UPL15-UNV-U  
Description: 4 FOOT, 750 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 90 CRI  
LEDS WITH 15% UPLIGHT  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

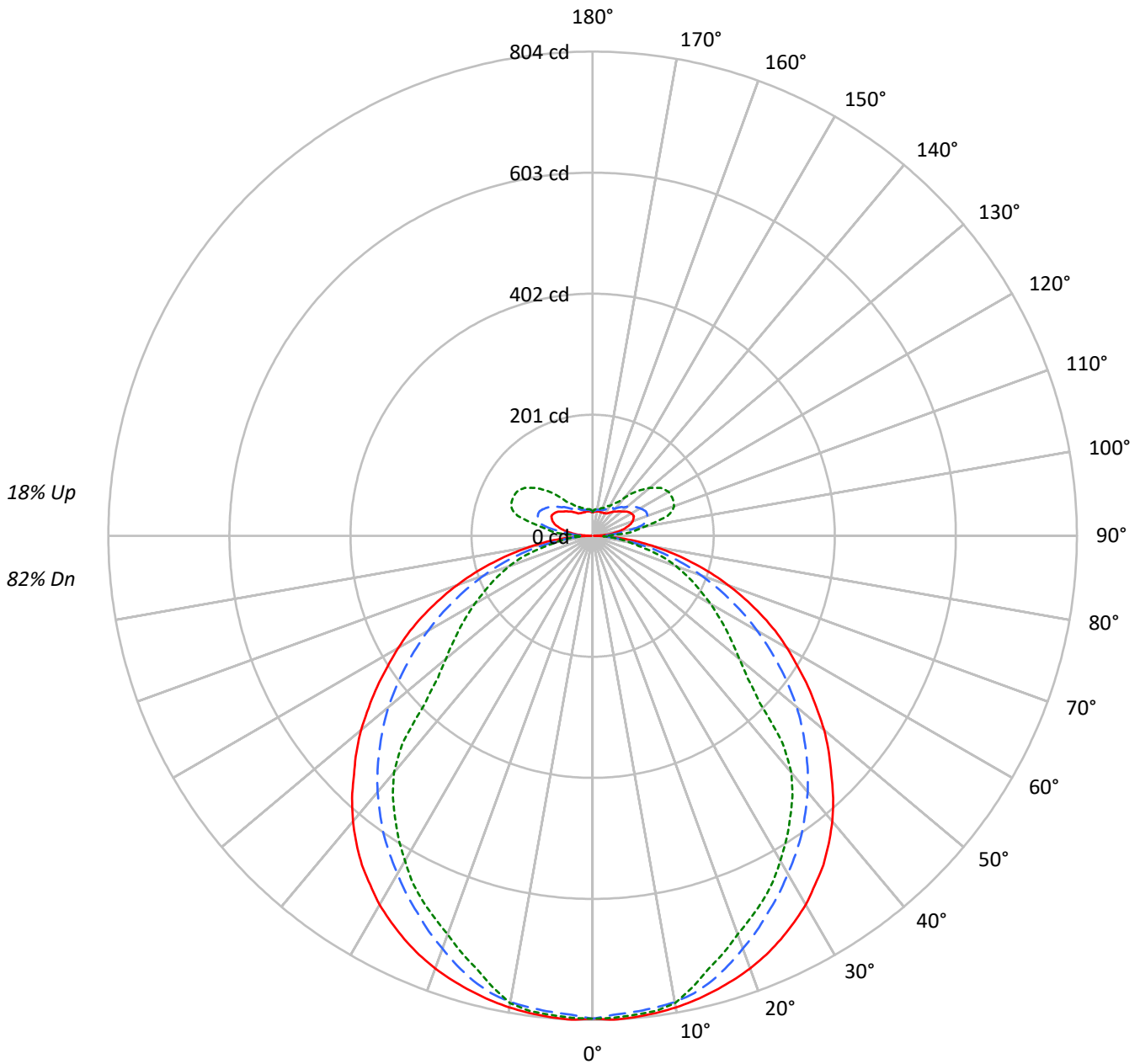
Lumens per Lamp: N/A  
Luminaire Lumens: 2597.0 lumens  
Efficiency: N/A  
Efficacy: 111.9 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')  
CIE Type: Semi-Direct

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

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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	115	115	115	115	110	110	110	110	101	101	101	93	93	93	86	86	86	82																			
1	105	100	96	92	100	96	93	89	89	86	83	82	80	78	76	74	72	69																			
2	96	88	81	76	91	84	78	73	78	73	69	72	68	65	67	64	61	58																			
3	87	77	69	63	83	74	67	61	69	63	58	64	59	55	59	55	52	49																			
4	80	68	60	53	76	66	58	52	61	55	50	57	51	47	53	48	45	42																			
5	73	61	52	46	70	59	51	45	55	48	43	51	45	41	48	43	39	36																			
6	68	55	46	40	65	53	45	39	50	43	38	46	40	36	43	38	34	32																			
7	63	50	41	35	60	48	40	35	45	38	33	42	36	32	39	34	30	28																			
8	58	45	37	32	56	44	36	31	41	35	30	39	33	29	36	31	27	25																			
9	55	42	34	28	52	40	33	28	38	31	27	36	30	26	33	28	25	23																			
10	51	38	31	26	49	37	30	25	35	29	24	33	27	23	31	26	23	21																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4316	4316	4316
5°	4337	4288	4314
10°	4347	4298	4307
15°	4359	4264	4146
20°	4379	4178	4034
25°	4390	4096	3970
30°	4397	4028	3872
35°	4387	3976	3756
40°	4348	3903	3606
45°	4265	3807	2990
50°	4201	3704	2663
55°	4098	3556	2533
60°	4010	3396	2434
65°	3915	3210	2361
70°	3762	3007	2316
75°	3552	2757	2131
80°	3251	2318	1891
85°	2915	2007	1908



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.0	2.9
10°-20°	215.9	8.3
20°-30°	322.2	12.4
30°-40°	383.9	14.8
40°-50°	381.8	14.7
50°-60°	327.3	12.6
60°-70°	246.5	9.5
70°-80°	142.7	5.5
80°-90°	42.9	1.7
90°-100°	46.0	1.8
100°-110°	94.6	3.6
110°-120°	100.0	3.9
120°-130°	83.4	3.2
130°-140°	58.3	2.2
140°-150°	36.3	1.4
150°-160°	22.5	0.9
160°-170°	12.7	0.5
170°-180°	4.1	0.2
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0°-30°	614.1	23.6
0°-40°	998.0	38.4
0°-60°	1707.1	65.7
0°-90°	2139.2	82.4
90°-120°	240.6	9.3
90°-150°	418.6	16.1
90°-180°	458.0	17.6
0°-180°	2597.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	802	802	802	802	802	
5°	803	800	794	799	799	76
15°	782	782	765	752	744	221
25°	739	729	690	673	668	341
35°	668	650	605	582	572	417
45°	560	546	500	451	393	433
55°	437	430	379	301	270	390
65°	307	300	252	196	185	304
75°	171	165	133	106	102	181
85°	47	42	32	31	31	50
90°	2	11	20	24	26	5
95°	26	35	40	59	63	25
105°	61	63	91	122	129	63
115°	76	64	97	133	146	74
125°	70	62	84	123	138	62
135°	57	62	68	91	105	44
145°	46	54	59	63	67	29
155°	42	45	48	52	53	20
165°	42	43	45	46	46	12
175°	41	42	42	43	44	4
180°	40	40	40	40	40	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	801.9	801.9	801.9	801.9	801.9
2.5°	804.3	802.7	796.2	802.7	801.1
5°	802.7	800.3	793.7	799.4	798.6
7.5°	799.4	797.8	790.5	797.0	796.2
10°	795.4	792.9	786.4	791.3	788.1
12.5°	789.7	788.1	778.3	774.2	767.7
15°	782.4	781.5	765.3	752.3	744.1
17.5°	774.2	771.0	748.2	732.8	725.4
20°	764.5	759.6	729.5	711.6	704.3
22.5°	753.1	745.8	710.8	693.7	686.4
25°	739.3	728.7	689.7	672.6	668.5
27.5°	723.8	711.6	670.1	653.1	648.2
30°	707.5	692.1	648.2	631.9	623.0
32.5°	687.2	672.6	627.0	608.3	598.6
35°	667.7	649.8	605.1	581.5	571.7
37.5°	644.1	626.2	579.9	556.3	544.9
40°	618.9	601.0	555.5	527.8	513.2
42.5°	591.2	575.0	528.6	495.3	466.8
45°	560.3	546.5	500.2	450.6	392.8
47.5°	531.9	518.9	471.7	407.4	348.1
50°	501.8	489.6	442.4	366.8	318.0
52.5°	468.4	459.5	410.7	331.8	292.8
55°	436.7	430.2	379.0	300.9	270.0
57.5°	403.4	396.9	347.3	271.6	247.2
60°	372.5	366.0	315.5	245.6	226.1
62.5°	341.6	332.6	284.6	220.4	204.1
65°	307.4	300.1	252.1	196.0	185.4
67.5°	273.3	266.8	222.0	173.2	165.9
70°	239.1	233.4	191.1	151.3	147.2
72.5°	205.8	198.4	163.5	129.3	127.7
75°	170.8	165.1	132.6	105.7	102.5
77.5°	137.4	132.6	104.1	80.5	78.1
80°	104.9	100.0	74.8	58.6	61.0
82.5°	77.3	70.8	50.4	45.5	48.0
85°	47.2	41.5	32.5	30.9	30.9
87.5°	16.3	15.5	14.6	17.1	17.9
90°	2.4	11.4	19.5	24.4	26.0
92.5°	13.8	20.3	26.8	31.7	33.3
95°	26.0	35.0	39.9	58.6	63.4
97.5°	35.8	46.4	52.0	69.1	74.0
100°	45.5	55.3	73.2	82.1	87.8
102.5°	53.7	61.0	86.2	104.1	107.4
105°	61.0	63.4	91.1	122.0	129.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	73.2	65.1	97.6	132.6	145.6
115°	75.6	64.2	96.8	133.4	146.4
117.5°	75.6	64.2	94.3	133.4	146.4
120°	74.0	65.1	91.1	131.7	145.6
122.5°	72.4	63.4	87.8	128.5	142.3
125°	69.9	61.8	83.8	122.8	138.3
127.5°	65.9	63.4	79.7	115.5	130.9
130°	62.6	64.2	74.8	108.2	123.6
132.5°	60.2	62.6	69.9	100.0	113.9
135°	56.9	61.8	67.5	91.1	104.9
137.5°	54.5	59.4	63.4	83.0	94.3
140°	52.0	57.7	59.4	72.4	82.1
142.5°	48.8	55.3	56.1	67.5	71.6
145°	46.4	53.7	58.6	62.6	66.7
147.5°	43.9	50.4	56.9	57.7	61.8
150°	43.1	47.2	54.5	55.3	56.9
152.5°	42.3	45.5	50.4	55.3	56.1
155°	42.3	44.7	48.0	52.0	52.9
157.5°	41.5	44.7	46.4	49.6	50.4
160°	41.5	43.9	45.5	48.0	48.8
162.5°	41.5	43.9	44.7	47.2	48.0
165°	41.5	43.1	44.7	46.4	46.4
167.5°	41.5	43.1	43.9	45.5	45.5
170°	41.5	42.3	43.9	44.7	44.7
172.5°	40.7	42.3	43.1	44.7	44.7
175°	40.7	41.5	42.3	43.1	43.9
177.5°	39.0	41.5	42.3	43.1	42.3
180°	39.9	39.9	39.9	39.9	39.9



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	66.7	64.2	94.3	128.5	139.1
110°	70.8	65.1	96.8	130.9	143.9



(END OF REPORT)