

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: P520620

Luminaire Tested: **4WSLA-75-L935-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: P520620
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-L935-UPL8-UNV-U
Description: 4 FOOT, 750 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 90 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

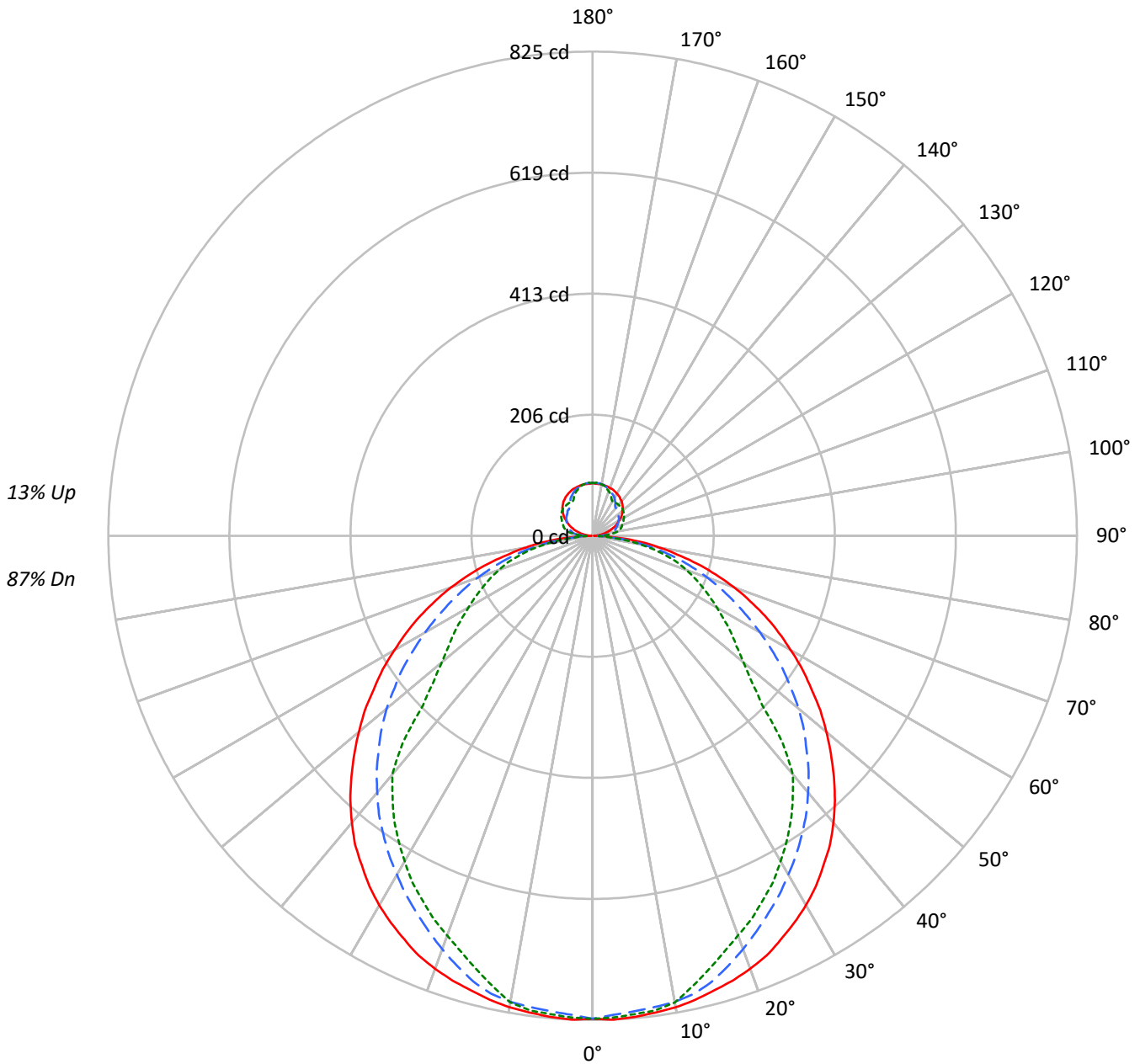
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2561.0 lumens
Efficiency: N/A
Efficacy: 110.4 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

TEST NUMBER: P520620
CATALOG NUMBER: 4WSLA-75-L935-UPL8-UNV-U

Luminous Intensity Polar Plot





TEST NUMBER: P520620

CATALOG NUMBER: 4WSLA-75-L935-UPL8-UNV-U

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°	4429	4429	4429
5°	4446	4394	4420
10°	4458	4406	4413
15°	4466	4381	4262
20°	4496	4293	4150
25°	4507	4211	4071
30°	4518	4143	3981
35°	4504	4084	3874
40°	4484	4010	3727
45°	4425	3921	3109
50°	4352	3836	2806
55°	4267	3711	2700
60°	4194	3543	2625
65°	4131	3393	2623
70°	4025	3260	2664
75°	3841	3103	2685
80°	3595	2789	2495
85°	3291	1976	1680



TEST NUMBER: P520620

CATALOG NUMBER: 4WSLA-75-L935-UPL8-UNV-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.9	3.0
10°-20°	221.5	8.6
20°-30°	330.9	12.9
30°-40°	395.0	15.4
40°-50°	395.1	15.4
50°-60°	341.9	13.4
60°-70°	262.5	10.2
70°-80°	160.8	6.3
80°-90°	45.3	1.8
90°-100°	25.6	1.0
100°-110°	40.6	1.6
110°-120°	47.5	1.9
120°-130°	51.3	2.0
130°-140°	50.5	2.0
140°-150°	44.7	1.7
150°-160°	36.8	1.4
160°-170°	24.6	1.0
170°-180°	8.6	0.3
0°-30°	630.3	24.6
0°-40°	1025.4	40.0
0°-60°	1762.4	68.8
0°-90°	2230.9	87.1
90°-120°	113.7	4.4
90°-150°	260.1	10.2
90°-180°	330.0	12.9
0°-180°	2561.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	823	823	823	823	823	
5°	823	820	813	819	818	78
15°	802	800	786	772	765	227
25°	759	750	709	690	686	350
35°	686	668	622	599	590	429
45°	581	565	515	469	408	448
55°	455	444	396	316	288	408
65°	324	313	266	214	206	320
75°	185	175	149	129	129	195
85°	53	44	32	27	27	56
90°	2	8	13	17	18	4
95°	10	20	27	28	28	9
105°	27	28	40	47	50	29
115°	45	38	47	54	58	44
125°	60	48	54	63	65	54
135°	72	65	60	66	70	56
145°	80	77	68	66	69	50
155°	85	84	79	76	75	39
165°	88	89	86	86	86	25
175°	89	90	90	91	91	8
180°	90	90	90	90	90	



TEST NUMBER: P520620

CATALOG NUMBER: 4WSLA-75-L935-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	822.9	822.9	822.9	822.9	822.9
2.5°	825.3	822.9	817.0	822.9	821.7
5°	822.9	820.5	813.4	819.4	818.2
7.5°	819.4	817.0	809.9	817.0	815.8
10°	815.8	813.4	806.3	811.1	807.5
12.5°	809.9	807.5	799.2	793.3	786.2
15°	801.6	800.4	786.2	772.0	764.9
17.5°	794.5	790.9	768.4	751.9	743.6
20°	785.0	779.1	749.5	730.6	724.6
22.5°	774.4	764.9	729.4	711.6	706.9
25°	759.0	749.5	709.2	690.3	685.6
27.5°	743.6	731.7	689.1	670.2	665.4
30°	727.0	710.4	666.6	648.9	640.6
32.5°	708.1	691.5	645.3	625.2	615.7
35°	685.6	667.8	621.6	599.1	589.7
37.5°	664.2	645.3	597.9	573.1	560.1
40°	638.2	619.3	570.7	543.5	530.5
42.5°	611.0	593.2	544.7	511.5	479.5
45°	581.4	564.8	515.1	468.9	408.5
47.5°	550.6	536.4	487.8	425.1	367.1
50°	519.8	505.6	458.2	383.6	335.1
52.5°	489.0	477.2	425.1	349.3	309.0
55°	454.7	444.0	395.5	316.1	287.7
57.5°	423.9	413.2	361.1	288.9	265.2
60°	389.6	380.1	329.2	261.7	243.9
62.5°	357.6	346.9	297.2	238.0	225.0
65°	324.4	312.6	266.4	214.3	206.0
67.5°	290.1	278.3	236.8	193.0	188.3
70°	255.8	246.3	207.2	171.7	169.3
72.5°	220.2	209.6	177.6	151.6	151.6
75°	184.7	175.2	149.2	129.1	129.1
77.5°	148.0	143.3	119.6	105.4	106.6
80°	116.0	110.1	90.0	80.5	80.5
82.5°	85.3	78.1	60.4	53.3	55.7
85°	53.3	43.8	32.0	27.2	27.2
87.5°	16.6	13.0	9.5	10.7	10.7
90°	2.4	8.3	13.0	16.6	17.8
92.5°	5.9	15.4	18.9	22.5	23.7
95°	9.5	20.1	27.2	28.4	28.4
97.5°	13.0	22.5	33.2	37.9	37.9
100°	17.8	23.7	35.5	42.6	43.8
102.5°	22.5	26.0	37.9	45.0	47.4
105°	27.2	28.4	40.3	47.4	49.7



TEST NUMBER: P520620

CATALOG NUMBER: 4WSLA-75-L935-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	40.3	35.5	45.0	53.3	55.7
115°	45.0	37.9	47.4	54.5	58.0
117.5°	48.5	41.4	49.7	56.8	59.2
120°	52.1	43.8	50.9	59.2	61.6
122.5°	56.8	46.2	53.3	60.4	63.9
125°	60.4	48.5	54.5	62.8	65.1
127.5°	63.9	53.3	55.7	63.9	66.3
130°	66.3	58.0	56.8	65.1	67.5
132.5°	69.9	61.6	58.0	66.3	68.7
135°	72.2	65.1	60.4	66.3	69.9
137.5°	74.6	68.7	60.4	66.3	68.7
140°	77.0	72.2	61.6	66.3	68.7
142.5°	78.1	74.6	62.8	66.3	68.7
145°	80.5	77.0	67.5	66.3	68.7
147.5°	81.7	79.3	71.0	66.3	68.7
150°	82.9	81.7	74.6	67.5	67.5
152.5°	84.1	82.9	77.0	72.2	69.9
155°	85.3	84.1	79.3	75.8	74.6
157.5°	86.4	86.4	81.7	79.3	78.1
160°	86.4	87.6	84.1	81.7	80.5
162.5°	87.6	88.8	85.3	84.1	82.9
165°	87.6	88.8	86.4	86.4	86.4
167.5°	88.8	90.0	88.8	87.6	87.6
170°	88.8	90.0	88.8	88.8	88.8
172.5°	88.8	90.0	90.0	90.0	90.0
175°	88.8	90.0	90.0	91.2	91.2
177.5°	88.8	90.0	90.0	90.0	90.0
180°	90.0	90.0	90.0	90.0	90.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	32.0	30.8	41.4	49.7	52.1
110°	35.5	33.2	43.8	50.9	53.3



(END OF REPORT)