

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: P520790

Luminaire Tested: **8WSLA-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: P520790
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: 8WSLA-75-L940-UPL15-UNV-U
Description: 8 FOOT, 1500 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

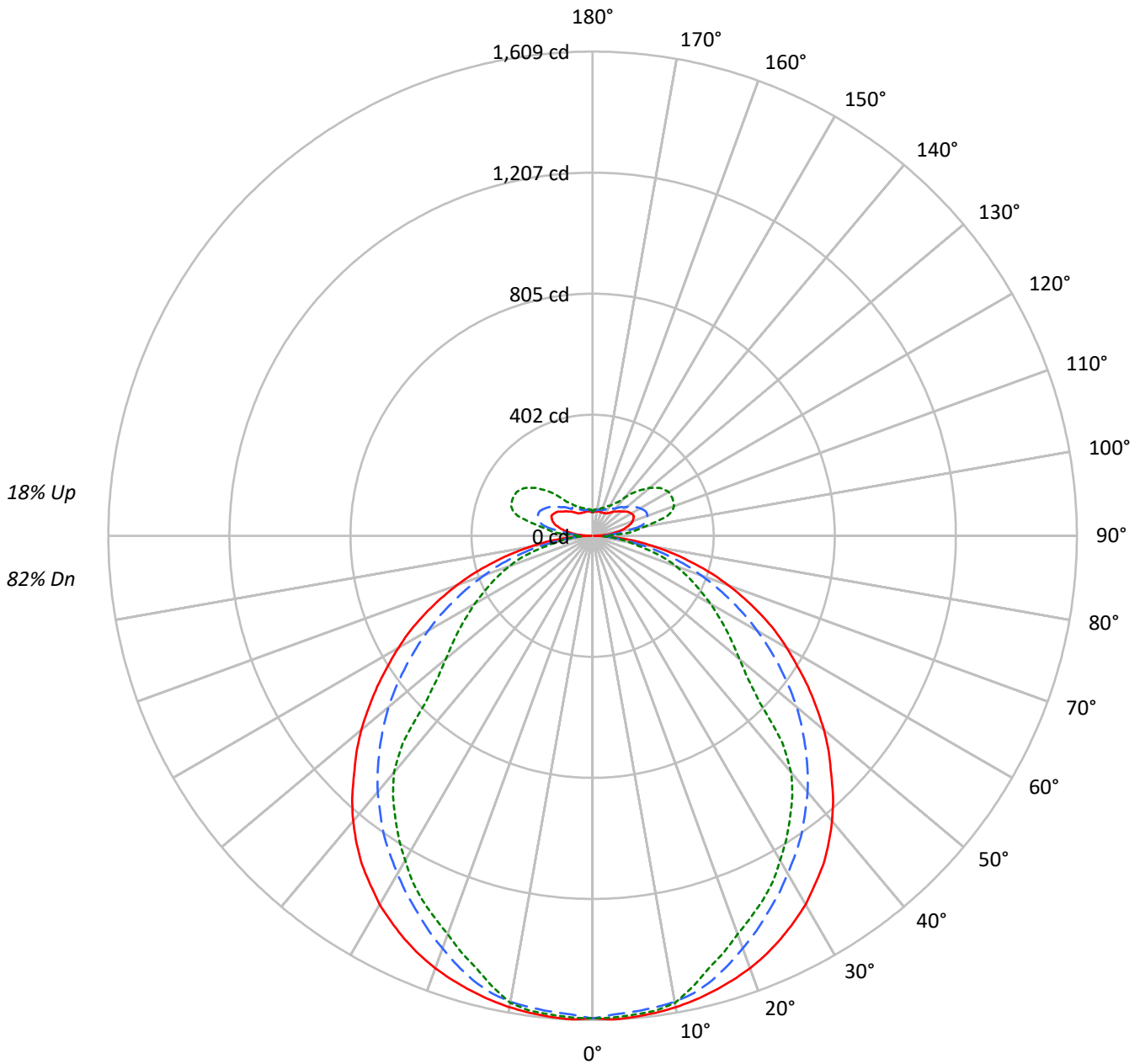
Lumens per Lamp: N/A
Luminaire Lumens: 5194.0 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 46.6
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

TEST NUMBER: P520790

CATALOG NUMBER: 8WSLA-75-L940-UPL15-UNV-U

Luminous Intensity Polar Plot





TEST NUMBER: P520790

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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	4315
10°	4347	4298	4307
15°	4359	4264	4146
20°	4378	4178	4034
25°	4390	4095	3970
30°	4397	4028	3871
35°	4387	3975	3756
40°	4348	3902	3605
45°	4265	3807	2990
50°	4201	3704	2663
55°	4098	3556	2533
60°	4010	3397	2434
65°	3915	3210	2361
70°	3762	3007	2316
75°	3552	2756	2130
80°	3251	2318	1891
85°	2912	2010	1908



TEST NUMBER: P520790

CATALOG NUMBER: 8WSLA-75-L940-UPL15-UNV-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.0	2.9
10°-20°	431.8	8.3
20°-30°	644.4	12.4
30°-40°	767.8	14.8
40°-50°	763.7	14.7
50°-60°	654.5	12.6
60°-70°	492.9	9.5
70°-80°	285.5	5.5
80°-90°	85.8	1.7
90°-100°	92.1	1.8
100°-110°	189.2	3.6
110°-120°	200.0	3.9
120°-130°	166.9	3.2
130°-140°	116.6	2.2
140°-150°	72.5	1.4
150°-160°	45.0	0.9
160°-170°	25.3	0.5
170°-180°	8.2	0.2
0°-30°	1228.1	23.6
0°-40°	1995.9	38.4
0°-60°	3414.1	65.7
0°-90°	4278.3	82.4
90°-120°	481.3	9.3
90°-150°	837.3	16.1
90°-180°	916.0	17.6
0°-180°	5194.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1604	1604	1604	1604	1604	
5°	1605	1600	1588	1599	1597	153
15°	1565	1563	1531	1504	1488	442
25°	1478	1457	1379	1345	1337	682
35°	1335	1300	1210	1163	1144	834
45°	1121	1093	1000	901	786	866
55°	873	860	758	602	540	781
65°	615	600	504	392	371	608
75°	342	330	265	211	205	362
85°	94	83	65	62	62	101
90°	5	23	39	49	52	10
95°	52	70	80	117	127	50
105°	122	127	182	244	259	127
115°	151	128	194	267	293	147
125°	140	124	168	246	276	124
135°	114	124	135	182	210	89
145°	93	107	117	125	133	59
155°	85	90	96	104	106	39
165°	83	86	90	93	93	24
175°	81	83	85	86	88	8
180°	80	80	80	80	80	



TEST NUMBER: P520790

CATALOG NUMBER: 8WSLA-75-L940-UPL15-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1603.8	1603.8	1603.8	1603.8	1603.8
2.5°	1608.6	1605.4	1592.4	1605.4	1602.1
5°	1605.4	1600.5	1587.5	1598.9	1597.3
7.5°	1598.9	1595.6	1581.0	1594.0	1592.4
10°	1590.8	1585.9	1572.9	1582.6	1576.1
12.5°	1579.4	1576.1	1556.6	1548.5	1535.4
15°	1564.7	1563.1	1530.6	1504.5	1488.3
17.5°	1548.5	1542.0	1496.4	1465.5	1450.9
20°	1528.9	1519.2	1459.0	1423.2	1408.6
22.5°	1506.2	1491.5	1421.6	1387.4	1372.8
25°	1478.5	1457.4	1379.3	1345.1	1337.0
27.5°	1447.6	1423.2	1340.3	1306.1	1296.3
30°	1415.1	1384.2	1296.3	1263.8	1245.9
32.5°	1374.4	1345.1	1254.1	1216.6	1197.1
35°	1335.4	1299.6	1210.1	1163.0	1143.5
37.5°	1288.2	1252.4	1159.7	1112.5	1089.8
40°	1237.8	1202.0	1110.9	1055.6	1026.3
42.5°	1182.5	1150.0	1057.2	990.6	933.6
45°	1120.7	1093.0	1000.3	901.1	785.6
47.5°	1063.8	1037.7	943.4	814.9	696.2
50°	1003.6	979.2	884.8	733.6	636.0
52.5°	936.9	919.0	821.4	663.6	585.6
55°	873.4	860.4	758.0	601.8	540.0
57.5°	806.8	793.7	694.5	543.3	494.5
60°	745.0	731.9	631.1	491.2	452.2
62.5°	683.1	665.3	569.3	440.8	408.3
65°	614.8	600.2	504.2	392.0	370.8
67.5°	546.5	533.5	444.0	346.5	331.8
70°	478.2	466.8	382.2	302.5	294.4
72.5°	411.5	396.9	326.9	258.6	255.4
75°	341.6	330.2	265.1	211.4	204.9
77.5°	274.9	265.1	208.2	161.0	156.1
80°	209.8	200.1	149.6	117.1	122.0
82.5°	154.5	141.5	100.8	91.1	96.0
85°	94.3	83.0	65.1	61.8	61.8
87.5°	32.5	30.9	29.3	34.2	35.8
90°	4.9	22.8	39.0	48.8	52.0
92.5°	27.7	40.7	53.7	63.4	66.7
95°	52.0	69.9	79.7	117.1	126.9
97.5°	71.6	92.7	104.1	138.3	148.0
100°	91.1	110.6	146.4	164.3	175.7
102.5°	107.4	122.0	172.4	208.2	214.7
105°	122.0	126.9	182.2	244.0	258.6



TEST NUMBER: P520790

CATALOG NUMBER: 8WSLA-75-L940-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	146.4	130.1	195.2	265.1	291.1
115°	151.3	128.5	193.6	266.8	292.8
117.5°	151.3	128.5	188.7	266.8	292.8
120°	148.0	130.1	182.2	263.5	291.1
122.5°	144.8	126.9	175.7	257.0	284.6
125°	139.9	123.6	167.5	245.6	276.5
127.5°	131.7	126.9	159.4	231.0	261.9
130°	125.2	128.5	149.6	216.3	247.2
132.5°	120.4	125.2	139.9	200.1	227.7
135°	113.9	123.6	135.0	182.2	209.8
137.5°	109.0	118.7	126.9	165.9	188.7
140°	104.1	115.5	118.7	144.8	164.3
142.5°	97.6	110.6	112.2	135.0	143.1
145°	92.7	107.4	117.1	125.2	133.4
147.5°	87.8	100.8	113.9	115.5	123.6
150°	86.2	94.3	109.0	110.6	113.9
152.5°	84.6	91.1	100.8	110.6	112.2
155°	84.6	89.5	96.0	104.1	105.7
157.5°	83.0	89.5	92.7	99.2	100.8
160°	83.0	87.8	91.1	96.0	97.6
162.5°	83.0	87.8	89.5	94.3	96.0
165°	83.0	86.2	89.5	92.7	92.7
167.5°	83.0	86.2	87.8	91.1	91.1
170°	83.0	84.6	87.8	89.5	89.5
172.5°	81.3	84.6	86.2	89.5	89.5
175°	81.3	83.0	84.6	86.2	87.8
177.5°	78.1	83.0	84.6	86.2	84.6
180°	79.7	79.7	79.7	79.7	79.7



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	133.4	128.5	188.7	257.0	278.1
110°	141.5	130.1	193.6	261.9	287.9



(END OF REPORT)