

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: P520778

Luminaire Tested: **8WSLA-75-L840-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: P520778
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-L840-UPL15-UNV-U
Description: 8 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

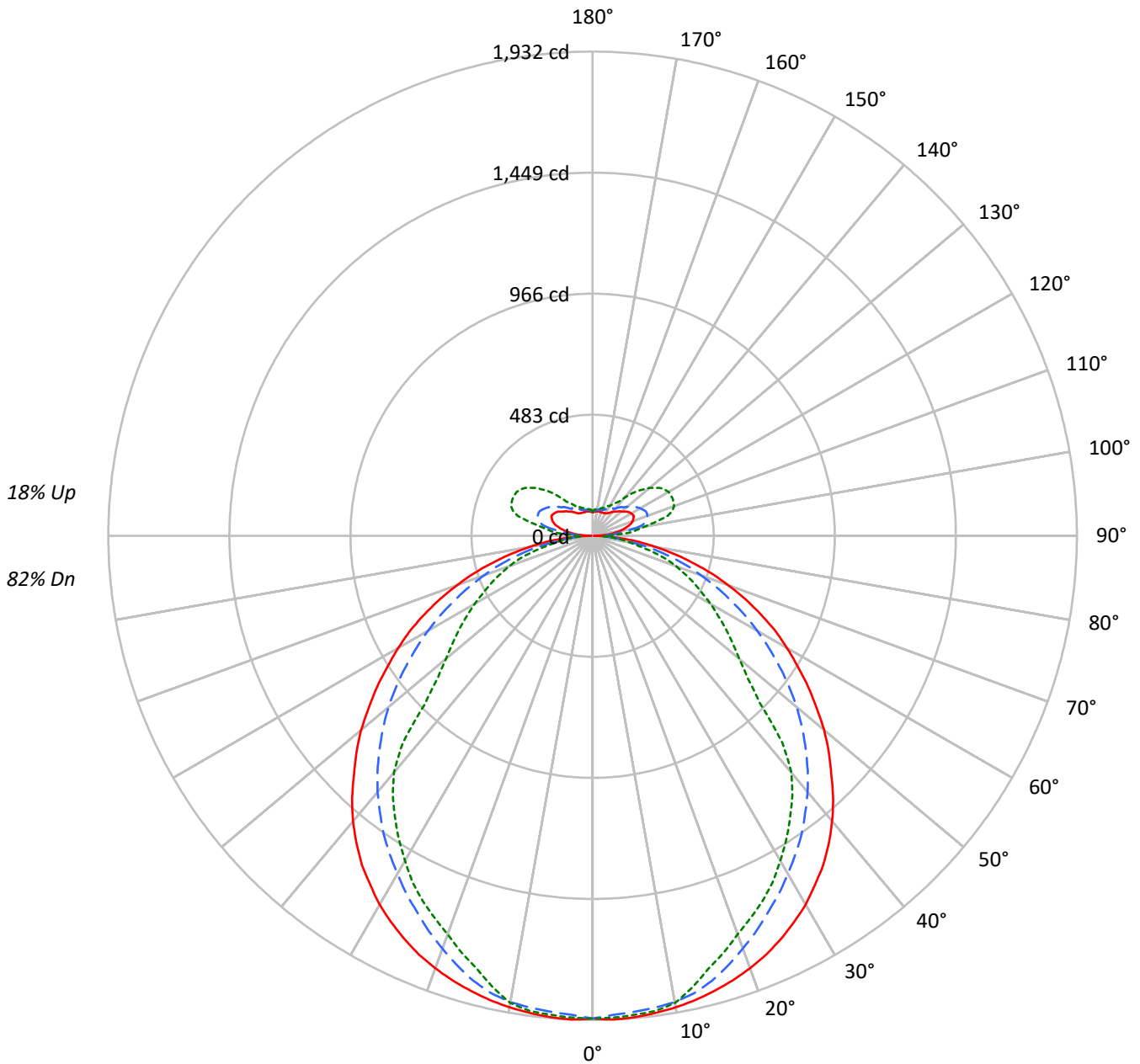
Lumens per Lamp: N/A
Luminaire Lumens: 6239.0 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

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

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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°	5184	5184	5184
5°	5209	5151	5183
10°	5221	5162	5173
15°	5236	5122	4980
20°	5259	5019	4845
25°	5273	4919	4768
30°	5282	4839	4650
35°	5270	4775	4512
40°	5223	4688	4331
45°	5123	4573	3591
50°	5047	4450	3198
55°	4922	4272	3043
60°	4816	4080	2923
65°	4702	3857	2837
70°	4519	3612	2782
75°	4266	3311	2560
80°	3905	2785	2270
85°	3498	2414	2291



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.6	2.9
10°-20°	518.6	8.3
20°-30°	774.0	12.4
30°-40°	922.2	14.8
40°-50°	917.3	14.7
50°-60°	786.2	12.6
60°-70°	592.1	9.5
70°-80°	342.9	5.5
80°-90°	103.1	1.7
90°-100°	110.6	1.8
100°-110°	227.2	3.6
110°-120°	240.2	3.9
120°-130°	200.4	3.2
130°-140°	140.0	2.2
140°-150°	87.1	1.4
150°-160°	54.0	0.9
160°-170°	30.4	0.5
170°-180°	9.8	0.2
0°-30°	1475.2	23.6
0°-40°	2397.5	38.4
0°-60°	4101.0	65.7
0°-90°	5139.1	82.4
90°-120°	578.1	9.3
90°-150°	1005.7	16.1
90°-180°	1100.0	17.6
0°-180°	6239.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1926	1926	1926	1926	1926	
5°	1928	1922	1907	1921	1919	183
15°	1880	1878	1838	1807	1788	531
25°	1776	1751	1657	1616	1606	819
35°	1604	1561	1454	1397	1374	1002
45°	1346	1313	1202	1082	944	1041
55°	1049	1034	910	723	649	938
65°	738	721	606	471	446	730
75°	410	397	318	254	246	435
85°	113	100	78	74	74	121
90°	6	27	47	59	62	12
95°	62	84	96	141	152	60
105°	146	152	219	293	311	152
115°	182	154	232	320	352	177
125°	168	148	201	295	332	149
135°	137	148	162	219	252	107
145°	111	129	141	150	160	71
155°	102	108	115	125	127	47
165°	100	104	108	111	111	28
175°	98	100	102	104	106	9
180°	96	96	96	96	96	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1926.4	1926.4	1926.4	1926.4	1926.4
2.5°	1932.3	1928.4	1912.8	1928.4	1924.5
5°	1928.4	1922.5	1906.9	1920.6	1918.6
7.5°	1920.6	1916.7	1899.1	1914.7	1912.8
10°	1910.8	1904.9	1889.3	1901.0	1893.2
12.5°	1897.1	1893.2	1869.8	1860.0	1844.4
15°	1879.5	1877.6	1838.5	1807.2	1787.7
17.5°	1860.0	1852.2	1797.5	1760.4	1742.8
20°	1836.6	1824.8	1752.5	1709.6	1692.0
22.5°	1809.2	1791.6	1707.6	1666.6	1649.0
25°	1776.0	1750.6	1656.8	1615.8	1606.0
27.5°	1738.9	1709.6	1609.9	1568.9	1557.2
30°	1699.8	1662.7	1557.2	1518.1	1496.6
32.5°	1650.9	1615.8	1506.4	1461.4	1438.0
35°	1604.1	1561.1	1453.6	1397.0	1373.5
37.5°	1547.4	1504.4	1393.0	1336.4	1309.0
40°	1486.8	1443.8	1334.4	1268.0	1232.8
42.5°	1420.4	1381.3	1270.0	1189.9	1121.5
45°	1346.2	1312.9	1201.6	1082.4	943.7
47.5°	1277.8	1246.5	1133.2	978.8	836.2
50°	1205.5	1176.2	1062.9	881.2	763.9
52.5°	1125.4	1103.9	986.7	797.1	703.4
55°	1049.2	1033.6	910.5	722.9	648.7
57.5°	969.1	953.4	834.3	652.6	594.0
60°	894.8	879.2	758.1	590.0	543.2
62.5°	820.6	799.1	683.8	529.5	490.4
65°	738.5	720.9	605.7	470.9	445.5
67.5°	656.5	640.8	533.4	416.2	398.6
70°	574.4	560.7	459.1	363.4	353.6
72.5°	494.3	476.7	392.7	310.7	306.7
75°	410.3	396.6	318.5	254.0	246.2
77.5°	330.2	318.5	250.1	193.4	187.6
80°	252.0	240.3	179.7	140.7	146.5
82.5°	185.6	170.0	121.1	109.4	115.3
85°	113.3	99.6	78.2	74.2	74.2
87.5°	39.1	37.1	35.2	41.0	43.0
90°	5.9	27.4	46.9	58.6	62.5
92.5°	33.2	48.8	64.5	76.2	80.1
95°	62.5	84.0	95.7	140.7	152.4
97.5°	86.0	111.4	125.0	166.1	177.8
100°	109.4	132.9	175.8	197.3	211.0
102.5°	128.9	146.5	207.1	250.1	257.9
105°	146.5	152.4	218.8	293.1	310.7



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CATALOG NUMBER: 8WSLA-75-L840-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	175.8	156.3	234.5	318.5	349.7
115°	181.7	154.3	232.5	320.4	351.7
117.5°	181.7	154.3	226.6	320.4	351.7
120°	177.8	156.3	218.8	316.5	349.7
122.5°	173.9	152.4	211.0	308.7	341.9
125°	168.0	148.5	201.2	295.0	332.1
127.5°	158.3	152.4	191.5	277.4	314.6
130°	150.4	154.3	179.7	259.9	297.0
132.5°	144.6	150.4	168.0	240.3	273.5
135°	136.8	148.5	162.2	218.8	252.0
137.5°	130.9	142.6	152.4	199.3	226.6
140°	125.0	138.7	142.6	173.9	197.3
142.5°	117.2	132.9	134.8	162.2	171.9
145°	111.4	128.9	140.7	150.4	160.2
147.5°	105.5	121.1	136.8	138.7	148.5
150°	103.6	113.3	130.9	132.9	136.8
152.5°	101.6	109.4	121.1	132.9	134.8
155°	101.6	107.5	115.3	125.0	127.0
157.5°	99.6	107.5	111.4	119.2	121.1
160°	99.6	105.5	109.4	115.3	117.2
162.5°	99.6	105.5	107.5	113.3	115.3
165°	99.6	103.6	107.5	111.4	111.4
167.5°	99.6	103.6	105.5	109.4	109.4
170°	99.6	101.6	105.5	107.5	107.5
172.5°	97.7	101.6	103.6	107.5	107.5
175°	97.7	99.6	101.6	103.6	105.5
177.5°	93.8	99.6	101.6	103.6	101.6
180°	95.7	95.7	95.7	95.7	95.7



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	160.2	154.3	226.6	308.7	334.1
110°	170.0	156.3	232.5	314.6	345.8



(END OF REPORT)