

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: P520779

Luminaire Tested: **8WSLA-75-L840-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: P520779
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: 8WSLA-75-L840-UPL8-UNV-U
Description: 8 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

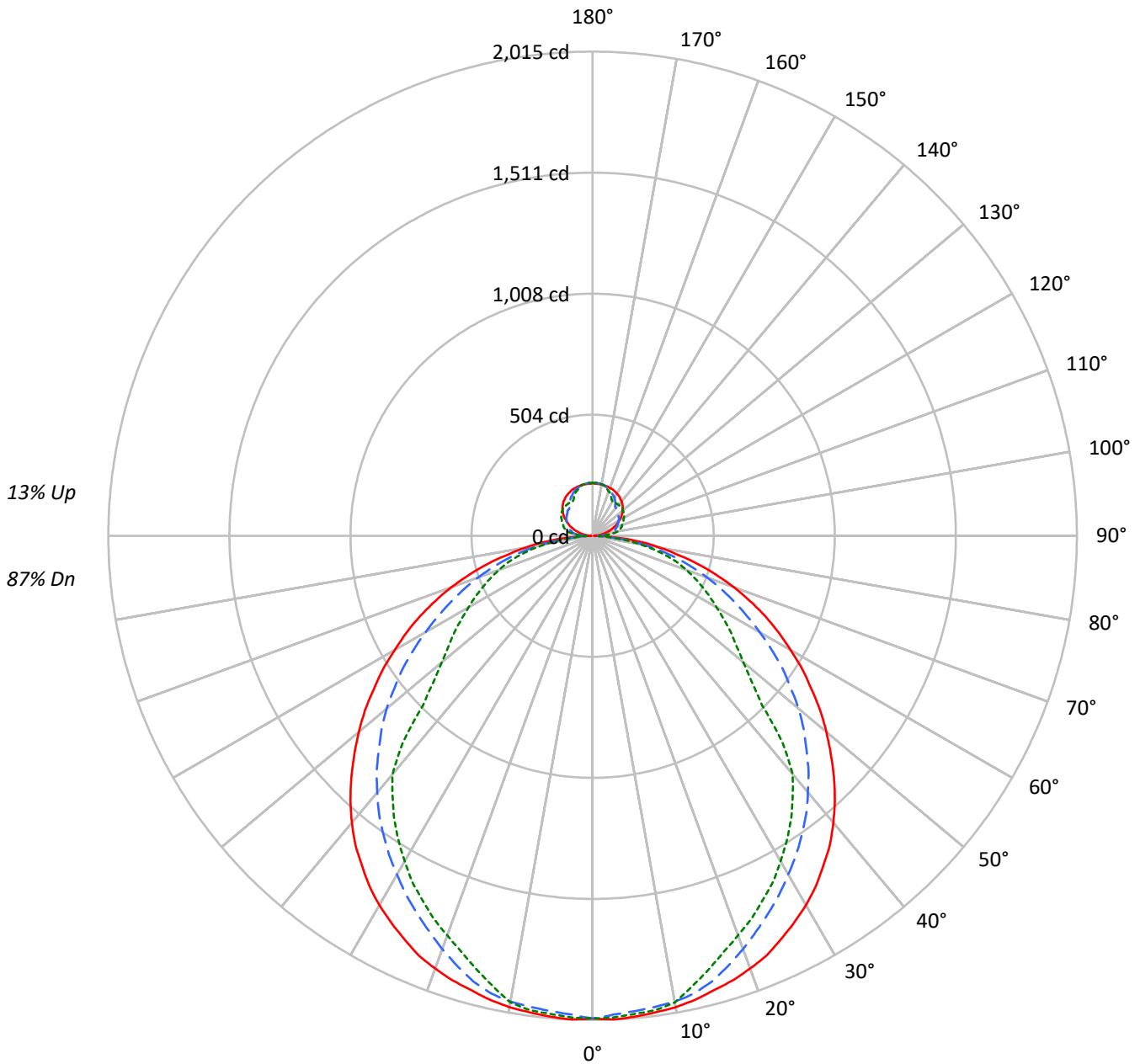
Lumens per Lamp: N/A
Luminaire Lumens: 6253.0 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

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	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°	5407	5407	5407
5°	5427	5365	5396
10°	5443	5380	5388
15°	5453	5348	5203
20°	5489	5241	5067
25°	5502	5142	4970
30°	5516	5057	4860
35°	5499	4986	4730
40°	5474	4895	4550
45°	5402	4786	3796
50°	5313	4684	3425
55°	5208	4530	3296
60°	5119	4325	3205
65°	5044	4142	3203
70°	4914	3980	3253
75°	4689	3788	3276
80°	4390	3405	3047
85°	4017	2411	2053



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.2	3.0
10°-20°	540.8	8.6
20°-30°	808.0	12.9
30°-40°	964.5	15.4
40°-50°	964.6	15.4
50°-60°	834.9	13.4
60°-70°	640.8	10.2
70°-80°	392.6	6.3
80°-90°	110.5	1.8
90°-100°	62.5	1.0
100°-110°	99.2	1.6
110°-120°	115.9	1.9
120°-130°	125.2	2.0
130°-140°	123.3	2.0
140°-150°	109.1	1.7
150°-160°	89.8	1.4
160°-170°	60.1	1.0
170°-180°	20.9	0.3
0°-30°	1539.0	24.6
0°-40°	2503.6	40.0
0°-60°	4303.1	68.8
0°-90°	5447.0	87.1
90°-120°	277.6	4.4
90°-150°	635.2	10.2
90°-180°	806.0	12.9
0°-180°	6253.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2009	2009	2009	2009	2009	
5°	2009	2004	1986	2001	1998	191
15°	1957	1954	1920	1885	1868	554
25°	1853	1830	1732	1685	1674	855
35°	1674	1630	1518	1463	1440	1048
45°	1420	1379	1258	1145	997	1095
55°	1110	1084	966	772	702	995
65°	792	763	650	523	503	782
75°	451	428	364	315	315	476
85°	130	107	78	66	66	136
90°	6	20	32	40	43	9
95°	23	49	66	69	69	23
105°	66	69	98	116	121	70
115°	110	92	116	133	142	107
125°	147	118	133	153	159	131
135°	176	159	147	162	171	136
145°	197	188	165	162	168	123
155°	208	205	194	185	182	96
165°	214	217	211	211	211	61
175°	217	220	220	223	223	21
180°	220	220	220	220	220	



TEST NUMBER: P520779

CATALOG NUMBER: 8WSLA-75-L840-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2009.2	2009.2	2009.2	2009.2	2009.2
2.5°	2015.0	2009.2	1994.8	2009.2	2006.3
5°	2009.2	2003.5	1986.1	2000.6	1997.7
7.5°	2000.6	1994.8	1977.4	1994.8	1991.9
10°	1991.9	1986.1	1968.8	1980.3	1971.7
12.5°	1977.4	1971.7	1951.4	1937.0	1919.6
15°	1957.2	1954.3	1919.6	1884.9	1867.6
17.5°	1939.9	1931.2	1876.3	1835.8	1815.5
20°	1916.7	1902.3	1830.0	1783.7	1769.3
22.5°	1890.7	1867.6	1780.8	1737.5	1725.9
25°	1853.1	1830.0	1731.7	1685.4	1673.9
27.5°	1815.5	1786.6	1682.6	1636.3	1624.7
30°	1775.1	1734.6	1627.6	1584.3	1564.0
32.5°	1728.8	1688.3	1575.6	1526.4	1503.3
35°	1673.9	1630.5	1517.8	1462.8	1439.7
37.5°	1621.8	1575.6	1459.9	1399.2	1367.4
40°	1558.2	1512.0	1393.5	1327.0	1295.2
42.5°	1491.7	1448.4	1329.9	1248.9	1170.8
45°	1419.5	1379.0	1257.6	1144.8	997.4
47.5°	1344.3	1309.6	1191.1	1037.9	896.2
50°	1269.1	1234.5	1118.8	936.7	818.1
52.5°	1194.0	1165.1	1037.9	852.8	754.5
55°	1110.1	1084.1	965.6	771.9	702.5
57.5°	1035.0	1009.0	881.8	705.4	647.6
60°	951.1	928.0	803.7	638.9	595.5
62.5°	873.1	847.1	725.6	581.1	549.3
65°	792.1	763.2	650.5	523.3	503.0
67.5°	708.3	679.4	578.2	471.2	459.7
70°	624.5	601.3	505.9	419.2	413.4
72.5°	537.7	511.7	433.6	370.0	370.0
75°	451.0	427.9	364.3	315.1	315.1
77.5°	361.4	349.8	292.0	257.3	260.2
80°	283.3	268.9	219.7	196.6	196.6
82.5°	208.2	190.8	147.4	130.1	135.9
85°	130.1	107.0	78.1	66.5	66.5
87.5°	40.5	31.8	23.1	26.0	26.0
90°	5.8	20.2	31.8	40.5	43.4
92.5°	14.5	37.6	46.3	54.9	57.8
95°	23.1	49.1	66.5	69.4	69.4
97.5°	31.8	54.9	80.9	92.5	92.5
100°	43.4	57.8	86.7	104.1	107.0
102.5°	54.9	63.6	92.5	109.9	115.6
105°	66.5	69.4	98.3	115.6	121.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	98.3	86.7	109.9	130.1	135.9
115°	109.9	92.5	115.6	133.0	141.7
117.5°	118.5	101.2	121.4	138.8	144.5
120°	127.2	107.0	124.3	144.5	150.3
122.5°	138.8	112.7	130.1	147.4	156.1
125°	147.4	118.5	133.0	153.2	159.0
127.5°	156.1	130.1	135.9	156.1	161.9
130°	161.9	141.7	138.8	159.0	164.8
132.5°	170.6	150.3	141.7	161.9	167.7
135°	176.4	159.0	147.4	161.9	170.6
137.5°	182.1	167.7	147.4	161.9	167.7
140°	187.9	176.4	150.3	161.9	167.7
142.5°	190.8	182.1	153.2	161.9	167.7
145°	196.6	187.9	164.8	161.9	167.7
147.5°	199.5	193.7	173.5	161.9	167.7
150°	202.4	199.5	182.1	164.8	164.8
152.5°	205.3	202.4	187.9	176.4	170.6
155°	208.2	205.3	193.7	185.0	182.1
157.5°	211.0	211.0	199.5	193.7	190.8
160°	211.0	213.9	205.3	199.5	196.6
162.5°	213.9	216.8	208.2	205.3	202.4
165°	213.9	216.8	211.0	211.0	211.0
167.5°	216.8	219.7	216.8	213.9	213.9
170°	216.8	219.7	216.8	216.8	216.8
172.5°	216.8	219.7	219.7	219.7	219.7
175°	216.8	219.7	219.7	222.6	222.6
177.5°	216.8	219.7	219.7	219.7	219.7
180°	219.7	219.7	219.7	219.7	219.7



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	78.1	75.2	101.2	121.4	127.2
110°	86.7	80.9	107.0	124.3	130.1



(END OF REPORT)