

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: P520791

Luminaire Tested: **8WSLA-75-L940-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: P520791
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-L940-UPL8-UNV-U
Description: 8 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 90 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

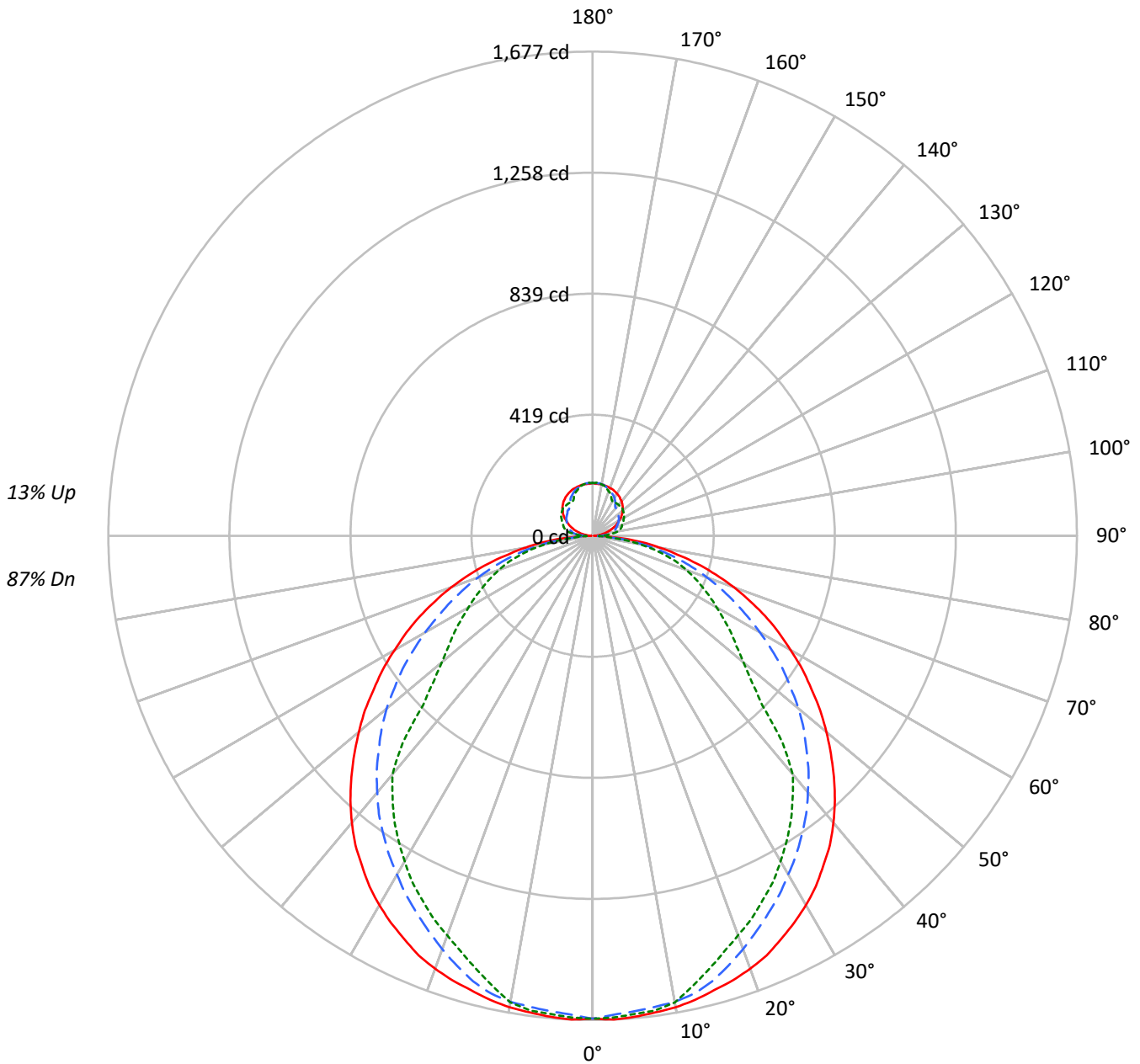
Lumens per Lamp: N/A
Luminaire Lumens: 5205.0 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 46.6
Input Voltage (V): NR
Input Current (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

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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°	4501	4501	4501
5°	4518	4466	4492
10°	4531	4478	4485
15°	4539	4452	4331
20°	4569	4362	4218
25°	4580	4280	4137
30°	4591	4210	4045
35°	4577	4150	3937
40°	4556	4075	3787
45°	4497	3984	3159
50°	4423	3899	2851
55°	4335	3771	2744
60°	4261	3601	2668
65°	4199	3448	2666
70°	4090	3313	2707
75°	3903	3152	2727
80°	3654	2834	2535
85°	3344	2007	1707



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.3	3.0
10°-20°	450.1	8.6
20°-30°	672.6	12.9
30°-40°	802.9	15.4
40°-50°	803.0	15.4
50°-60°	694.9	13.4
60°-70°	533.4	10.2
70°-80°	326.8	6.3
80°-90°	92.0	1.8
90°-100°	52.0	1.0
100°-110°	82.5	1.6
110°-120°	96.5	1.9
120°-130°	104.2	2.0
130°-140°	102.7	2.0
140°-150°	90.8	1.7
150°-160°	74.7	1.4
160°-170°	50.0	1.0
170°-180°	17.4	0.3
0°-30°	1281.1	24.6
0°-40°	2084.0	40.0
0°-60°	3581.9	68.8
0°-90°	4534.1	87.1
90°-120°	231.0	4.4
90°-150°	528.7	10.2
90°-180°	671.0	12.9
0°-180°	5205.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1672	1672	1672	1672	1672	
5°	1672	1668	1653	1665	1663	159
15°	1629	1627	1598	1569	1555	461
25°	1542	1523	1442	1403	1393	712
35°	1393	1357	1263	1218	1198	873
45°	1182	1148	1047	953	830	911
55°	924	902	804	642	585	828
65°	659	635	542	436	419	651
75°	375	356	303	262	262	396
85°	108	89	65	55	55	113
90°	5	17	26	34	36	8
95°	19	41	55	58	58	19
105°	55	58	82	96	101	58
115°	91	77	96	111	118	89
125°	123	99	111	128	132	109
135°	147	132	123	135	142	113
145°	164	156	137	135	140	102
155°	173	171	161	154	152	80
165°	178	180	176	176	176	51
175°	180	183	183	185	185	17
180°	183	183	183	183	183	



TEST NUMBER: P520791

CATALOG NUMBER: 8WSLA-75-L940-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1672.5	1672.5	1672.5	1672.5	1672.5
2.5°	1677.3	1672.5	1660.5	1672.5	1670.1
5°	1672.5	1667.7	1653.2	1665.3	1662.9
7.5°	1665.3	1660.5	1646.0	1660.5	1658.1
10°	1658.1	1653.2	1638.8	1648.4	1641.2
12.5°	1646.0	1641.2	1624.4	1612.3	1597.9
15°	1629.2	1626.8	1597.9	1569.0	1554.6
17.5°	1614.7	1607.5	1561.8	1528.1	1511.3
20°	1595.5	1583.5	1523.3	1484.8	1472.8
22.5°	1573.8	1554.6	1482.4	1446.3	1436.7
25°	1542.5	1523.3	1441.5	1403.0	1393.3
27.5°	1511.3	1487.2	1400.6	1362.1	1352.4
30°	1477.6	1443.9	1354.8	1318.7	1301.9
32.5°	1439.1	1405.4	1311.5	1270.6	1251.4
35°	1393.3	1357.2	1263.4	1217.7	1198.4
37.5°	1350.0	1311.5	1215.3	1164.7	1138.3
40°	1297.1	1258.6	1159.9	1104.6	1078.1
42.5°	1241.7	1205.6	1107.0	1039.6	974.6
45°	1181.6	1147.9	1046.8	953.0	830.2
47.5°	1119.0	1090.1	991.5	863.9	746.0
50°	1056.4	1027.6	931.3	779.7	681.0
52.5°	993.9	969.8	863.9	709.9	628.1
55°	924.1	902.4	803.8	642.5	584.8
57.5°	861.5	839.9	734.0	587.2	539.0
60°	791.7	772.5	669.0	531.8	495.7
62.5°	726.8	705.1	604.0	483.7	457.2
65°	659.4	635.3	541.5	435.6	418.7
67.5°	589.6	565.5	481.3	392.3	382.6
70°	519.8	500.5	421.1	348.9	344.1
72.5°	447.6	425.9	361.0	308.0	308.0
75°	375.4	356.2	303.2	262.3	262.3
77.5°	300.8	291.2	243.1	214.2	216.6
80°	235.8	223.8	182.9	163.6	163.6
82.5°	173.3	158.8	122.7	108.3	113.1
85°	108.3	89.0	65.0	55.3	55.3
87.5°	33.7	26.5	19.3	21.7	21.7
90°	4.8	16.8	26.5	33.7	36.1
92.5°	12.0	31.3	38.5	45.7	48.1
95°	19.3	40.9	55.3	57.8	57.8
97.5°	26.5	45.7	67.4	77.0	77.0
100°	36.1	48.1	72.2	86.6	89.0
102.5°	45.7	52.9	77.0	91.4	96.3
105°	55.3	57.8	81.8	96.3	101.1



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CATALOG NUMBER: 8WSLA-75-L940-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	81.8	72.2	91.4	108.3	113.1
115°	91.4	77.0	96.3	110.7	117.9
117.5°	98.7	84.2	101.1	115.5	120.3
120°	105.9	89.0	103.5	120.3	125.1
122.5°	115.5	93.9	108.3	122.7	129.9
125°	122.7	98.7	110.7	127.5	132.4
127.5°	129.9	108.3	113.1	129.9	134.8
130°	134.8	117.9	115.5	132.4	137.2
132.5°	142.0	125.1	117.9	134.8	139.6
135°	146.8	132.4	122.7	134.8	142.0
137.5°	151.6	139.6	122.7	134.8	139.6
140°	156.4	146.8	125.1	134.8	139.6
142.5°	158.8	151.6	127.5	134.8	139.6
145°	163.6	156.4	137.2	134.8	139.6
147.5°	166.0	161.2	144.4	134.8	139.6
150°	168.5	166.0	151.6	137.2	137.2
152.5°	170.9	168.5	156.4	146.8	142.0
155°	173.3	170.9	161.2	154.0	151.6
157.5°	175.7	175.7	166.0	161.2	158.8
160°	175.7	178.1	170.9	166.0	163.6
162.5°	178.1	180.5	173.3	170.9	168.5
165°	178.1	180.5	175.7	175.7	175.7
167.5°	180.5	182.9	180.5	178.1	178.1
170°	180.5	182.9	180.5	180.5	180.5
172.5°	180.5	182.9	182.9	182.9	182.9
175°	180.5	182.9	182.9	185.3	185.3
177.5°	180.5	182.9	182.9	182.9	182.9
180°	182.9	182.9	182.9	182.9	182.9



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	65.0	62.6	84.2	101.1	105.9
110°	72.2	67.4	89.0	103.5	108.3



(END OF REPORT)