

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: P520695

Luminaire Tested: **8WSLA-150-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: P520695
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-150-L940-UPL8-UNV-U
Description: 8 FOOT, 3000 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

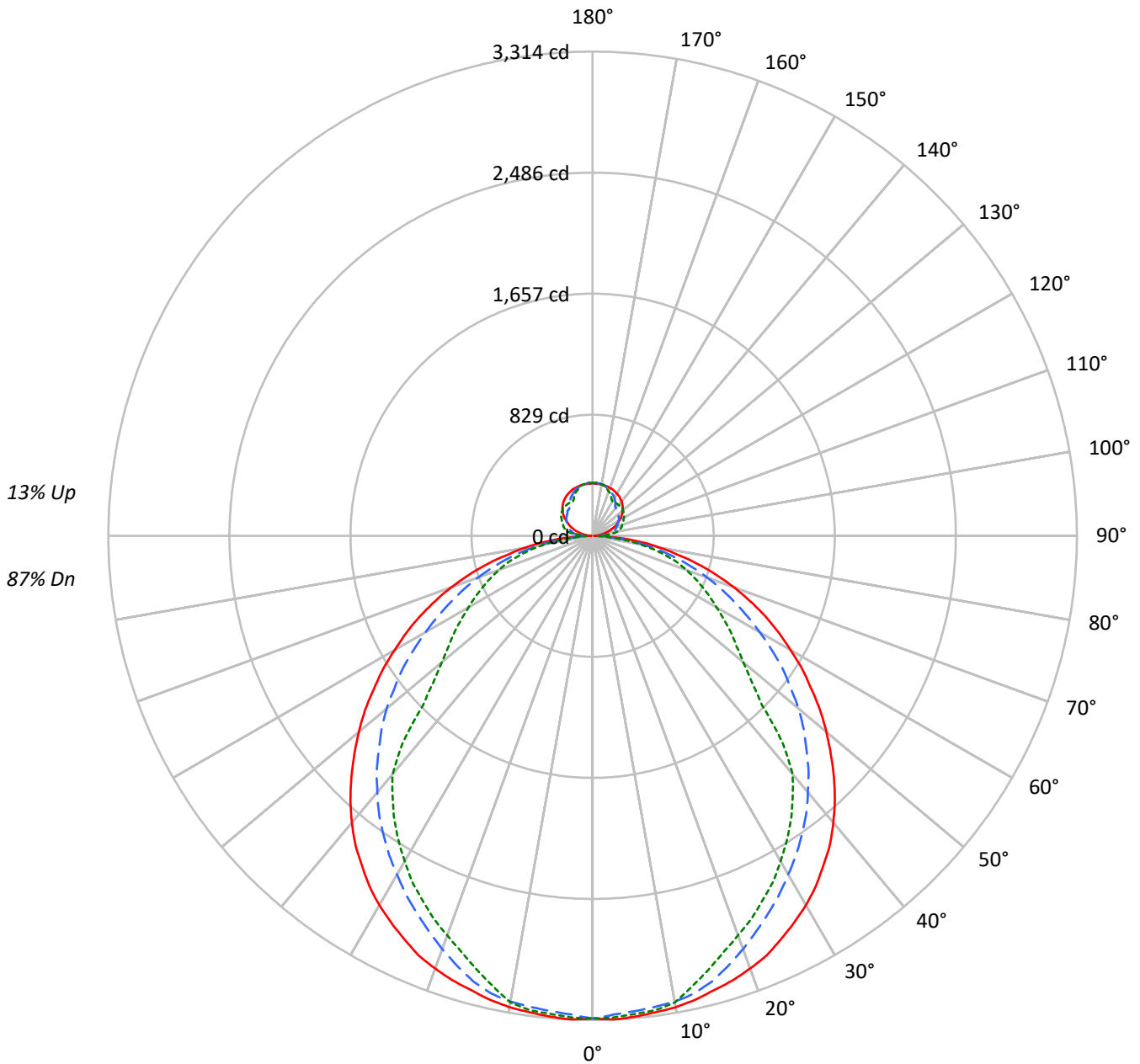
Lumens per Lamp: N/A
Luminaire Lumens: 10284.0 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 93.6
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				20				20	
RC	80				70				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				87
1	106	101	97	93	102	98	94	90	91	88	85	85	83	80	79	78	76	73				73
2	96	88	82	76	92	85	79	74	80	75	70	74	70	67	70	66	64	61				61
3	88	78	70	63	84	75	68	62	70	64	59	66	61	56	62	58	54	51				51
4	80	69	60	54	77	67	59	53	62	56	50	59	53	48	55	50	46	44				44
5	74	61	53	46	71	60	51	45	56	49	44	53	47	42	50	45	40	38				38
6	68	55	47	40	66	54	46	40	51	44	38	48	42	37	45	40	36	33				33
7	63	50	42	36	61	49	41	35	46	39	34	43	37	33	41	36	32	30				30
8	59	46	37	32	57	44	37	31	42	35	30	40	34	29	38	32	28	26				26
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24				24
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	32	27	23	22				22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8892	8892	8892
5°	8926	8824	8875
10°	8952	8848	8861
15°	8968	8795	8557
20°	9027	8619	8333
25°	9049	8456	8174
30°	9071	8318	7993
35°	9044	8200	7778
40°	9003	8050	7483
45°	8884	7871	6243
50°	8738	7703	5633
55°	8566	7451	5421
60°	8419	7114	5272
65°	8295	6812	5268
70°	8080	6547	5349
75°	7712	6229	5389
80°	7221	5601	5010
85°	6607	3964	3378



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.8	3.0
10°-20°	889.4	8.6
20°-30°	1328.9	12.9
30°-40°	1586.4	15.4
40°-50°	1586.5	15.4
50°-60°	1373.0	13.4
60°-70°	1053.9	10.2
70°-80°	645.8	6.3
80°-90°	181.8	1.8
90°-100°	102.7	1.0
100°-110°	163.1	1.6
110°-120°	190.7	1.9
120°-130°	205.9	2.0
130°-140°	202.8	2.0
140°-150°	179.4	1.7
150°-160°	147.7	1.4
160°-170°	98.8	1.0
170°-180°	34.4	0.3
0°-30°	2531.1	24.6
0°-40°	4117.5	40.0
0°-60°	7077.0	68.8
0°-90°	8958.5	87.1
90°-120°	456.5	4.4
90°-150°	1044.6	10.2
90°-180°	1326.0	12.9
0°-180°	10284.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3304	3304	3304	3304	3304	
5°	3304	3295	3266	3290	3286	314
15°	3219	3214	3157	3100	3072	911
25°	3048	3010	2848	2772	2753	1406
35°	2753	2682	2496	2406	2368	1724
45°	2334	2268	2068	1883	1640	1800
55°	1826	1783	1588	1270	1155	1637
65°	1303	1255	1070	861	827	1287
75°	742	704	599	518	518	782
85°	214	176	128	109	109	224
90°	10	33	52	67	71	15
95°	38	81	109	114	114	38
105°	109	114	162	190	200	115
115°	181	152	190	219	233	177
125°	242	195	219	252	262	216
135°	290	262	242	266	280	224
145°	323	309	271	266	276	202
155°	342	338	319	304	300	158
165°	352	357	347	347	347	100
175°	357	361	361	366	366	34
180°	361	361	361	361	361	



TEST NUMBER: P520695

CATALOG NUMBER: 8WSLA-150-L940-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3304.5	3304.5	3304.5	3304.5	3304.5
2.5°	3314.0	3304.5	3280.7	3304.5	3299.7
5°	3304.5	3295.0	3266.5	3290.2	3285.5
7.5°	3290.2	3280.7	3252.2	3280.7	3276.0
10°	3276.0	3266.5	3237.9	3256.9	3242.7
12.5°	3252.2	3242.7	3209.4	3185.6	3157.1
15°	3218.9	3214.2	3157.1	3100.0	3071.5
17.5°	3190.4	3176.1	3085.8	3019.2	2985.9
20°	3152.3	3128.6	3009.7	2933.6	2909.9
22.5°	3109.6	3071.5	2928.9	2857.6	2838.5
25°	3047.7	3009.7	2848.0	2772.0	2753.0
27.5°	2985.9	2938.4	2767.2	2691.1	2672.1
30°	2919.4	2852.8	2676.9	2605.6	2572.3
32.5°	2843.3	2776.7	2591.3	2510.5	2472.4
35°	2753.0	2681.6	2496.2	2405.9	2367.8
37.5°	2667.4	2591.3	2401.1	2301.3	2249.0
40°	2562.8	2486.7	2291.7	2182.4	2130.1
42.5°	2453.4	2382.1	2187.1	2054.0	1925.6
45°	2334.5	2268.0	2068.3	1882.8	1640.4
47.5°	2210.9	2153.9	1958.9	1706.9	1473.9
50°	2087.3	2030.2	1840.1	1540.5	1345.6
52.5°	1963.7	1916.1	1706.9	1402.6	1241.0
55°	1825.8	1783.0	1588.1	1269.5	1155.4
57.5°	1702.2	1659.4	1450.2	1160.1	1065.0
60°	1564.3	1526.2	1321.8	1050.8	979.5
62.5°	1435.9	1393.1	1193.4	955.7	903.4
65°	1302.8	1255.2	1069.8	860.6	827.3
67.5°	1164.9	1117.3	950.9	775.0	756.0
70°	1027.0	989.0	832.1	689.4	679.9
72.5°	884.4	841.6	713.2	608.6	608.6
75°	741.7	703.7	599.1	518.3	518.3
77.5°	594.3	575.3	480.2	423.2	427.9
80°	466.0	442.2	361.4	323.3	323.3
82.5°	342.3	313.8	242.5	214.0	223.5
85°	214.0	175.9	128.4	109.4	109.4
87.5°	66.6	52.3	38.0	42.8	42.8
90°	9.5	33.3	52.3	66.6	71.3
92.5°	23.8	61.8	76.1	90.3	95.1
95°	38.0	80.8	109.4	114.1	114.1
97.5°	52.3	90.3	133.1	152.1	152.1
100°	71.3	95.1	142.6	171.2	175.9
102.5°	90.3	104.6	152.1	180.7	190.2
105°	109.4	114.1	161.7	190.2	199.7



TEST NUMBER: P520695

CATALOG NUMBER: 8WSLA-150-L940-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	161.7	142.6	180.7	214.0	223.5
115°	180.7	152.1	190.2	218.7	233.0
117.5°	194.9	166.4	199.7	228.2	237.7
120°	209.2	175.9	204.5	237.7	247.2
122.5°	228.2	185.4	214.0	242.5	256.8
125°	242.5	194.9	218.7	252.0	261.5
127.5°	256.8	214.0	223.5	256.8	266.3
130°	266.3	233.0	228.2	261.5	271.0
132.5°	280.5	247.2	233.0	266.3	275.8
135°	290.0	261.5	242.5	266.3	280.5
137.5°	299.5	275.8	242.5	266.3	275.8
140°	309.1	290.0	247.2	266.3	275.8
142.5°	313.8	299.5	252.0	266.3	275.8
145°	323.3	309.1	271.0	266.3	275.8
147.5°	328.1	318.6	285.3	266.3	275.8
150°	332.8	328.1	299.5	271.0	271.0
152.5°	337.6	332.8	309.1	290.0	280.5
155°	342.3	337.6	318.6	304.3	299.5
157.5°	347.1	347.1	328.1	318.6	313.8
160°	347.1	351.8	337.6	328.1	323.3
162.5°	351.8	356.6	342.3	337.6	332.8
165°	351.8	356.6	347.1	347.1	347.1
167.5°	356.6	361.4	356.6	351.8	351.8
170°	356.6	361.4	356.6	356.6	356.6
172.5°	356.6	361.4	361.4	361.4	361.4
175°	356.6	361.4	361.4	366.1	366.1
177.5°	356.6	361.4	361.4	361.4	361.4
180°	361.4	361.4	361.4	361.4	361.4



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	128.4	123.6	166.4	199.7	209.2
110°	142.6	133.1	175.9	204.5	214.0



(END OF REPORT)