

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: P520654

Luminaire Tested: **8WSLA-125-L835-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: P520654
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2002-689-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 8WSLA-125-L835-UNV-U
Description: 8 FOOT, 2500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 80 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

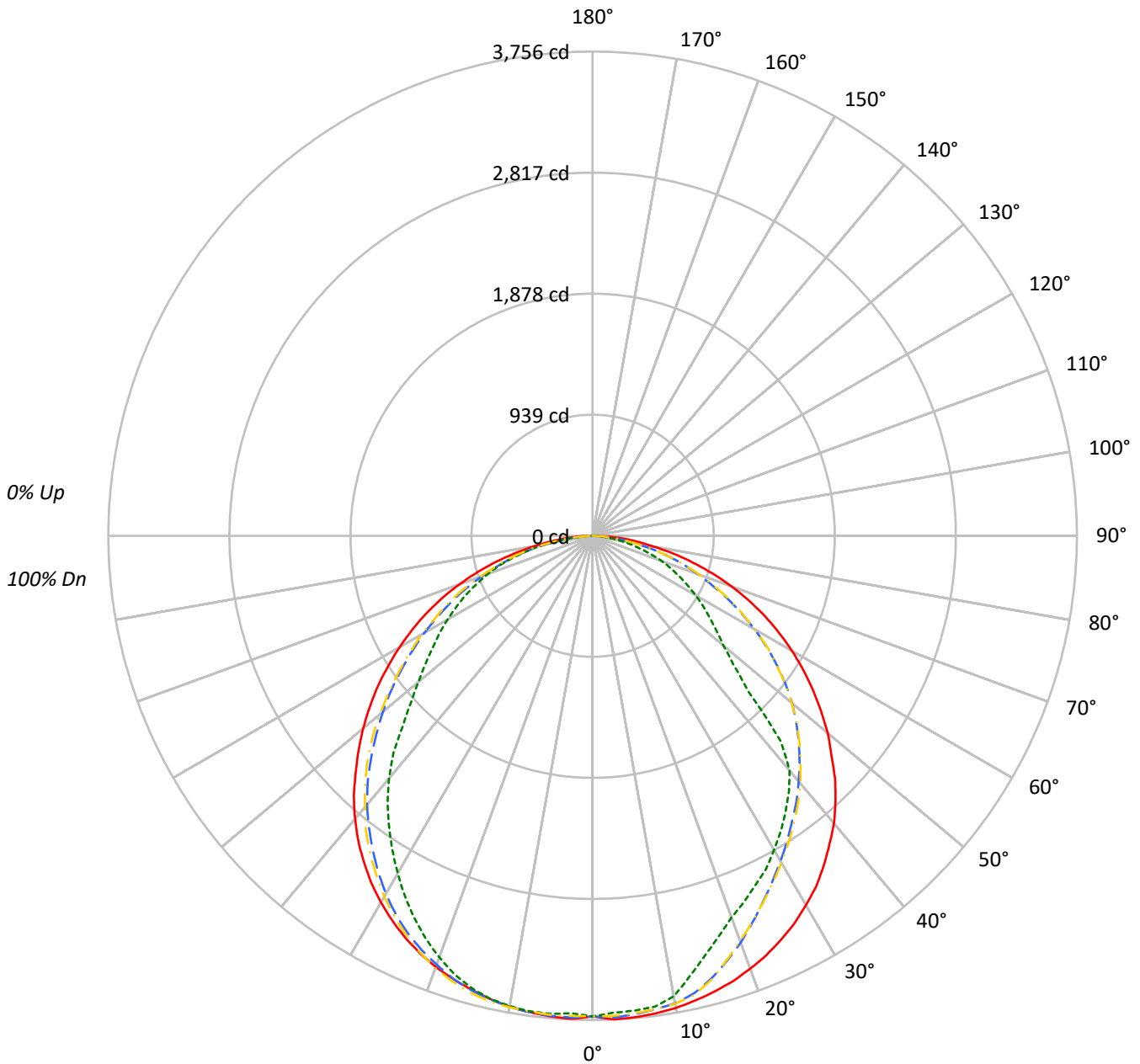
Lumens per Lamp: N/A
Luminaire Lumens: 10000.0 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 78.2
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				
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84			84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70			70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60			60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51			51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44			44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39			39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34			34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31			31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28			28
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25			25

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10031	10031	10031	10031
5°	10129	9988	10113	10053
10°	10164	9913	10137	10120
15°	10196	9388	10151	10118
20°	10234	9020	10194	9965
25°	10266	8871	10213	9714
30°	10278	8743	10203	9395
35°	10262	8573	10156	9046
40°	10228	8346	10067	8627
45°	10115	6484	9886	7915
50°	9963	5551	9720	7384
55°	9786	5198	9532	7103
60°	9600	4962	9310	6985
65°	9372	4699	9054	6902
70°	9000	4468	8622	6797
75°	8379	3930	7984	6466
80°	7438	3285	6974	5486
85°	7040	2347	6175	3149



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.2	3.5
10°-20°	1010.2	10.1
20°-30°	1509.5	15.1
30°-40°	1796.9	18.0
40°-50°	1796.1	18.0
50°-60°	1545.5	15.5
60°-70°	1163.3	11.6
70°-80°	662.9	6.6
80°-90°	161.4	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2874.0	28.7
0°-40°	4670.9	46.7
0°-60°	8012.5	80.1
0°-90°	10000.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10000.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3728	3728	3728	3728	3728	
5°	3750	3698	3744	3722	3750	357
15°	3660	3370	3644	3632	3660	1034
25°	3458	2988	3440	3272	3458	1594
35°	3124	2610	3092	2754	3124	1955
45°	2658	1704	2598	2080	2658	2047
55°	2086	1108	2032	1514	2086	1865
65°	1472	738	1422	1084	1472	1453
75°	806	378	768	622	806	853
85°	228	76	200	102	228	248
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	3727.7	3727.7	3727.7	3727.7	3727.7	3727.7	3727.7	3727.7	3727.7	3727.7	3727.7
2.5°	3755.7	3721.7	3741.7	3735.7	3703.7	3715.7	3727.7	3715.7	3751.7	3719.7	3741.7
5°	3749.7	3713.7	3725.7	3713.7	3697.7	3701.7	3719.7	3707.7	3743.7	3709.7	3737.7
7.5°	3737.7	3693.7	3705.7	3699.7	3685.7	3687.7	3705.7	3695.7	3727.7	3695.7	3727.7
10°	3719.7	3673.7	3683.7	3657.7	3627.7	3649.7	3685.7	3675.7	3709.7	3673.7	3709.7
12.5°	3691.7	3645.7	3635.7	3549.7	3495.7	3537.7	3647.7	3647.7	3679.7	3645.7	3683.7
15°	3659.7	3609.7	3555.7	3425.7	3369.7	3411.7	3563.7	3615.7	3643.7	3609.7	3647.7
17.5°	3621.7	3563.7	3459.7	3307.7	3255.7	3297.7	3453.7	3567.7	3603.7	3567.7	3601.7
20°	3573.7	3505.7	3357.7	3183.7	3149.7	3187.7	3343.7	3509.7	3559.7	3515.7	3539.7
22.5°	3521.7	3439.7	3243.7	3087.7	3071.7	3095.7	3237.7	3437.7	3503.7	3457.7	3473.7
25°	3457.7	3361.7	3129.7	2999.7	2987.7	3001.7	3133.7	3353.7	3439.7	3391.7	3397.7
27.5°	3389.7	3285.7	3021.7	2925.7	2913.7	2919.7	3029.7	3259.7	3365.7	3317.7	3307.7
30°	3307.7	3195.7	2913.7	2825.7	2813.8	2835.7	2929.7	3163.7	3283.7	3235.7	3205.7
32.5°	3225.7	3097.7	2807.8	2739.8	2715.8	2735.8	2825.7	3063.7	3193.7	3143.7	3093.7
35°	3123.7	2993.7	2697.8	2629.8	2609.8	2631.8	2721.8	2959.7	3091.7	3041.7	2973.7
37.5°	3017.7	2883.7	2597.8	2535.8	2499.8	2525.8	2615.8	2851.7	2985.7	2933.7	2849.7
40°	2911.7	2767.8	2485.8	2421.8	2375.8	2413.8	2505.8	2737.8	2865.7	2817.8	2721.8
42.5°	2787.8	2651.8	2375.8	2285.8	2155.8	2277.8	2387.8	2623.8	2741.8	2695.8	2579.8
45°	2657.8	2527.8	2259.8	2041.8	1703.8	2061.8	2267.8	2503.8	2597.8	2553.8	2427.8
47.5°	2509.8	2399.8	2141.8	1809.8	1481.9	1829.8	2145.8	2389.8	2461.8	2413.8	2273.8
50°	2379.8	2271.8	2017.8	1613.9	1325.9	1635.9	2015.8	2261.8	2321.8	2277.8	2121.8
52.5°	2231.8	2137.8	1883.8	1439.9	1209.9	1461.9	1879.8	2129.8	2177.8	2125.8	1969.8
55°	2085.8	2001.8	1741.8	1285.9	1107.9	1305.9	1737.8	1993.8	2031.8	1971.8	1809.8
57.5°	1937.8	1861.8	1595.9	1147.9	1013.9	1169.9	1605.9	1853.8	1879.8	1803.8	1655.9
60°	1783.8	1719.8	1447.9	1025.9	921.9	1043.9	1443.9	1713.8	1729.8	1647.9	1505.9
62.5°	1629.9	1571.9	1299.9	913.9	827.9	925.9	1309.9	1565.9	1575.9	1497.9	1351.9
65°	1471.9	1417.9	1155.9	795.9	737.9	815.9	1165.9	1411.9	1421.9	1333.9	1201.9
67.5°	1307.9	1263.9	1001.9	705.9	651.9	711.9	1021.9	1255.9	1261.9	1175.9	1055.9
70°	1143.9	1105.9	865.9	607.9	567.9	609.9	879.9	1083.9	1095.9	1003.9	907.9
72.5°	975.9	945.9	733.9	506.0	470.0	506.0	741.9	925.9	933.9	857.9	763.9
75°	805.9	783.9	599.9	406.0	378.0	404.0	603.9	767.9	767.9	695.9	621.9
77.5°	641.9	625.9	460.0	312.0	292.0	308.0	462.0	607.9	603.9	548.0	490.0
80°	480.0	468.0	330.0	226.0	212.0	220.0	330.0	450.0	450.0	410.0	340.0
82.5°	344.0	330.0	218.0	148.0	140.0	144.0	214.0	314.0	320.0	290.0	230.0
85°	228.0	196.0	118.0	82.0	76.0	78.0	112.0	182.0	200.0	168.0	120.0
87.5°	100.0	66.0	30.0	12.0	6.0	8.0	24.0	58.0	76.0	50.0	16.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	3727.7	3727.7	3727.7	3727.7	3727.7	3727.7
2.5°	3739.7	3707.7	3719.7	3727.7	3719.7	3755.7
5°	3735.7	3721.7	3719.7	3729.7	3713.7	3749.7
7.5°	3729.7	3721.7	3719.7	3723.7	3703.7	3737.7
10°	3715.7	3703.7	3707.7	3713.7	3687.7	3719.7
12.5°	3689.7	3677.7	3679.7	3699.7	3663.7	3691.7
15°	3645.7	3631.7	3645.7	3667.7	3635.7	3659.7
17.5°	3587.7	3565.7	3589.7	3623.7	3599.7	3621.7
20°	3513.7	3479.7	3505.7	3567.7	3545.7	3573.7
22.5°	3423.7	3381.7	3407.7	3497.7	3491.7	3521.7
25°	3321.7	3271.7	3307.7	3417.7	3429.7	3457.7
27.5°	3207.7	3151.7	3199.7	3329.7	3357.7	3389.7
30°	3083.7	3023.7	3079.7	3231.7	3273.7	3307.7
32.5°	2955.7	2889.7	2953.7	3121.7	3181.7	3225.7
35°	2821.7	2753.8	2825.7	3007.7	3079.7	3123.7
37.5°	2677.8	2611.8	2689.8	2887.7	2973.7	3017.7
40°	2529.8	2455.8	2543.8	2745.8	2859.7	2911.7
42.5°	2377.8	2285.8	2393.8	2611.8	2735.8	2787.8
45°	2207.8	2079.8	2225.8	2469.8	2599.8	2657.8
47.5°	2037.8	1909.8	2057.8	2317.8	2457.8	2509.8
50°	1873.8	1763.8	1881.8	2151.8	2313.8	2379.8
52.5°	1723.8	1633.9	1733.8	1989.8	2165.8	2231.8
55°	1583.9	1513.9	1595.9	1829.8	2009.8	2085.8
57.5°	1451.9	1407.9	1463.9	1677.9	1865.8	1937.8
60°	1327.9	1297.9	1337.9	1527.9	1695.8	1783.8
62.5°	1205.9	1189.9	1219.9	1369.9	1537.9	1629.9
65°	1087.9	1083.9	1099.9	1231.9	1371.9	1471.9
67.5°	969.9	967.9	977.9	1085.9	1209.9	1307.9
70°	851.9	863.9	857.9	927.9	1047.9	1143.9
72.5°	731.9	749.9	739.9	783.9	899.9	975.9
75°	597.9	621.9	601.9	651.9	723.9	805.9
77.5°	460.0	486.0	462.0	506.0	583.9	641.9
80°	330.0	354.0	334.0	368.0	436.0	480.0
82.5°	208.0	226.0	210.0	244.0	312.0	344.0
85°	92.0	102.0	106.0	132.0	192.0	228.0
87.5°	4.0	2.0	4.0	26.0	68.0	100.0
90°	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270° - · - · 135°-315°









(END OF REPORT)