

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: P558129

Luminaire Tested: **FUSL-12-4-LD4-3LO-50-UNV-80-84-EDD**

Issue Date: 7/16/2021

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: P558129
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2105-257-2)
Test Lab: INNOVATION CENTER
Issue Date: 7/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FUSL-12-4-LD4-3LO-50-UNV-80-84-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

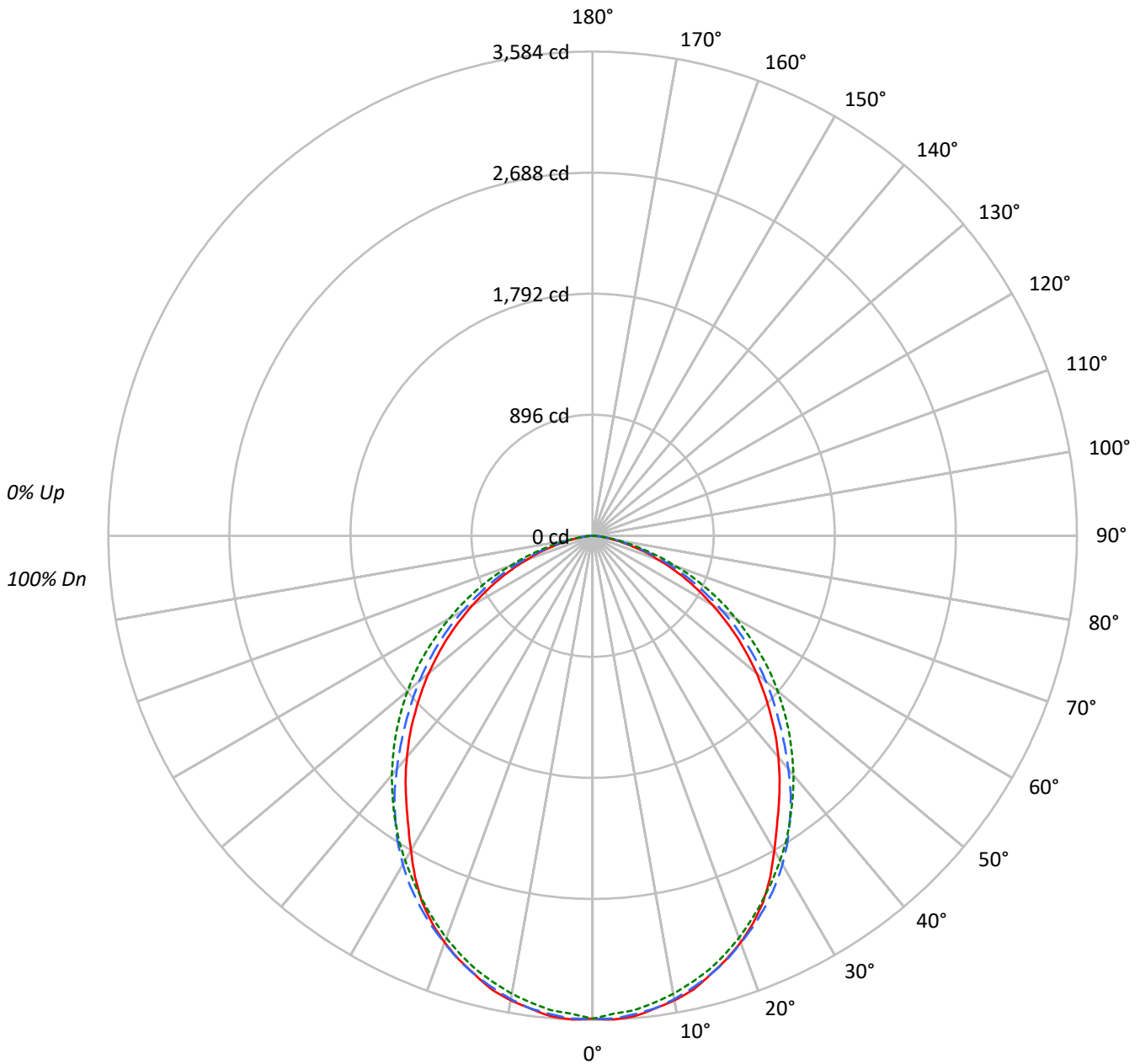
Lumens per Lamp: N/A
Luminaire Lumens: 8265.0 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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					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								
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86								
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73								
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63								
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54								
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47								
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42								
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37								
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34								
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30								
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9619	9619	9619
5°	9644	9604	9522
10°	9542	9516	9407
15°	9373	9373	9266
20°	9174	9186	9068
25°	8872	8982	8840
30°	8355	8730	8623
35°	7894	8368	8382
40°	7510	7916	8123
45°	7081	7436	7818
50°	6628	7008	7485
55°	6114	6520	7080
60°	5506	5949	6585
65°	4862	5290	5989
70°	4051	4505	5089
75°	3184	3597	3983
80°	2276	2532	2810
85°	1485	1485	1399



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.5	4.1
10°-20°	945.4	11.4
20°-30°	1381.6	16.7
30°-40°	1568.3	19.0
40°-50°	1513.9	18.3
50°-60°	1248.9	15.1
60°-70°	831.6	10.1
70°-80°	372.2	4.5
80°-90°	66.6	0.8
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°	2663.6	32.2
0°-40°	4231.8	51.2
0°-60°	6994.6	84.6
0°-90°	8265.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8265.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3574	3574	3574	3574	3574	
5°	3570	3569	3555	3536	3525	338
15°	3364	3372	3364	3349	3326	948
25°	2988	3011	3025	3003	2977	1368
35°	2403	2436	2547	2561	2551	1506
45°	1861	1892	1954	2043	2054	1436
55°	1303	1325	1390	1467	1509	1163
65°	764	784	831	890	941	757
75°	306	323	346	362	383	335
85°	48	48	48	45	45	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3574.4	3574.4	3574.4	3574.4	3574.4
2.5°	3584.0	3585.4	3577.1	3555.2	3541.4
5°	3570.3	3568.9	3555.2	3535.9	3525.0
7.5°	3530.5	3533.2	3529.1	3501.6	3486.5
10°	3492.0	3493.4	3482.4	3460.4	3442.6
12.5°	3442.6	3441.2	3426.1	3415.1	3386.3
15°	3364.3	3372.5	3364.3	3349.2	3325.9
17.5°	3288.8	3288.8	3294.3	3268.2	3250.3
20°	3203.6	3207.8	3207.8	3187.2	3166.6
22.5°	3104.8	3117.1	3121.2	3099.3	3074.6
25°	2988.0	3011.4	3025.1	3003.2	2977.1
27.5°	2846.6	2882.3	2923.5	2907.0	2878.2
30°	2688.7	2740.9	2809.5	2795.8	2775.2
32.5°	2539.0	2591.2	2685.9	2680.5	2669.5
35°	2403.1	2436.0	2547.3	2561.0	2551.4
37.5°	2274.0	2304.2	2408.6	2440.1	2431.9
40°	2138.0	2171.0	2253.4	2309.7	2312.4
42.5°	2003.5	2035.1	2102.3	2183.4	2183.4
45°	1860.7	1892.2	1954.0	2043.3	2054.3
47.5°	1720.6	1753.6	1814.0	1903.2	1921.1
50°	1583.3	1613.5	1673.9	1760.4	1787.9
52.5°	1440.5	1473.4	1532.5	1612.1	1651.9
55°	1303.2	1325.1	1389.7	1466.6	1509.1
57.5°	1160.3	1180.9	1253.7	1319.6	1363.6
60°	1023.0	1049.1	1105.4	1172.7	1223.5
62.5°	891.2	918.7	966.7	1025.8	1083.4
65°	763.5	784.1	830.8	889.8	940.6
67.5°	639.9	657.8	704.4	745.6	799.2
70°	514.9	538.3	572.6	612.4	646.8
72.5°	414.7	424.3	453.2	482.0	517.7
75°	306.2	322.7	346.0	362.5	383.1
77.5°	219.7	229.3	243.1	256.8	276.0
80°	146.9	151.1	163.4	166.2	181.3
82.5°	89.3	92.0	94.7	96.1	101.6
85°	48.1	48.1	48.1	45.3	45.3
87.5°	27.5	27.5	23.3	19.2	13.7
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







(END OF REPORT)