

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: P555384

Luminaire Tested: **FUSL-12-2-LD4-3HI-30-UNV-80-88-EDD-90**

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: P555384
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-12-2-LD4-3HI-30-UNV-80-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

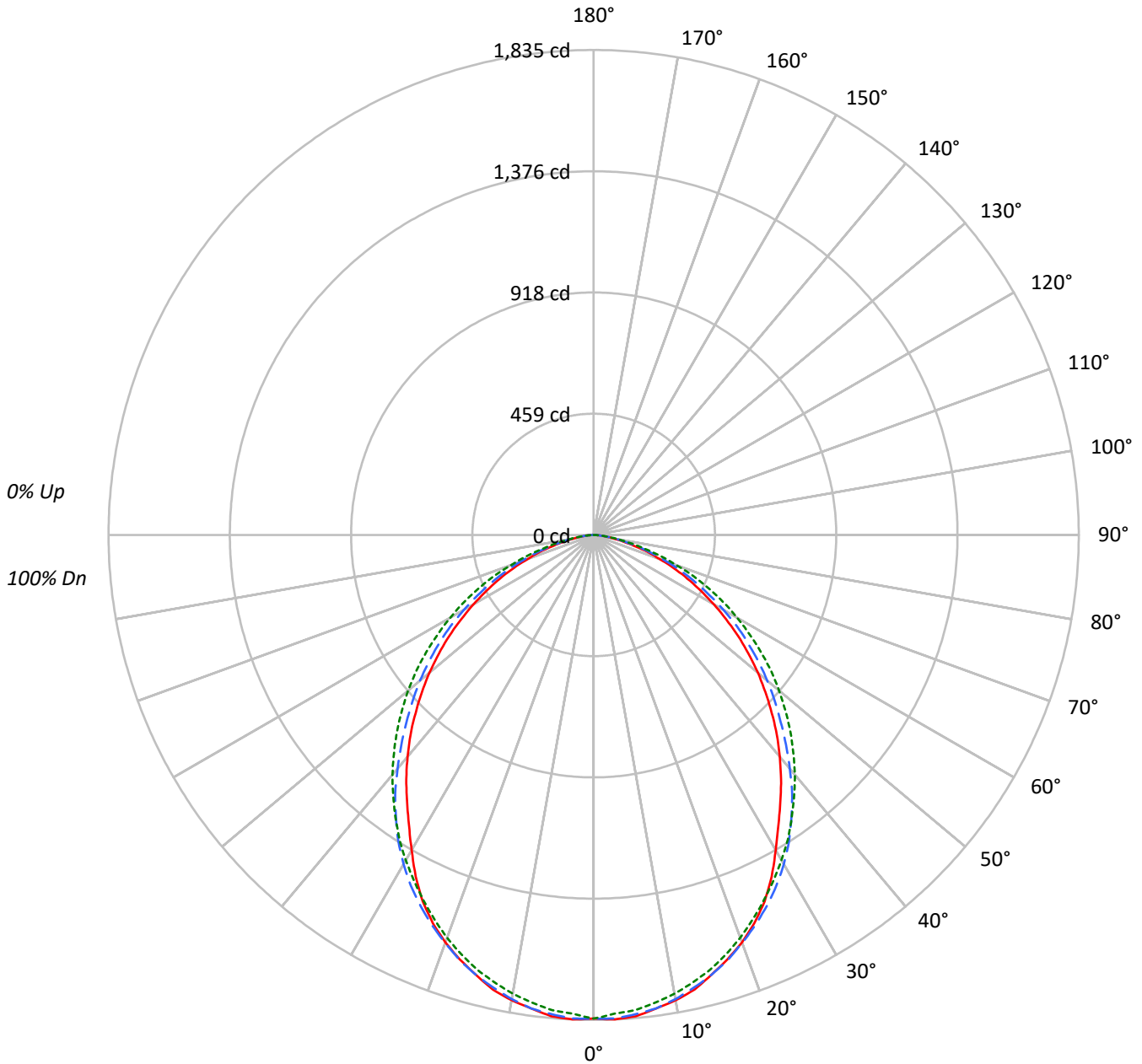
Lumens per Lamp: N/A
Luminaire Lumens: 4232.0 lumens
Efficiency: N/A
Efficacy: 65.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
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	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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54					54			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47					47			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34					34			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9850	9850	9850
5°	9876	9835	9751
10°	9771	9745	9633
15°	9599	9599	9489
20°	9395	9407	9286
25°	9086	9198	9052
30°	8556	8940	8831
35°	8085	8569	8583
40°	7692	8106	8319
45°	7251	7615	8006
50°	6788	7176	7665
55°	6261	6677	7250
60°	5638	6092	6744
65°	4978	5417	6133
70°	4150	4614	5212
75°	3261	3685	4080
80°	2331	2594	2876
85°	1519	1519	1433



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.3	4.1
10°-20°	484.1	11.4
20°-30°	707.4	16.7
30°-40°	803.0	19.0
40°-50°	775.2	18.3
50°-60°	639.5	15.1
60°-70°	425.8	10.1
70°-80°	190.6	4.5
80°-90°	34.1	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°	1363.9	32.2
0°-40°	2166.9	51.2
0°-60°	3581.5	84.6
0°-90°	4232.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4232.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1830	1830	1830	1830	1830	
5°	1828	1827	1820	1810	1805	173
15°	1723	1727	1723	1715	1703	486
25°	1530	1542	1549	1538	1524	701
35°	1230	1247	1304	1311	1306	771
45°	953	969	1000	1046	1052	735
55°	667	678	712	751	773	596
65°	391	402	425	456	482	388
75°	157	165	177	186	196	171
85°	25	25	25	23	23	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1830.2	1830.2	1830.2	1830.2	1830.2
2.5°	1835.2	1835.9	1831.6	1820.4	1813.4
5°	1828.1	1827.4	1820.4	1810.5	1804.9
7.5°	1807.7	1809.1	1807.0	1793.0	1785.2
10°	1788.0	1788.7	1783.1	1771.9	1762.7
12.5°	1762.7	1762.0	1754.3	1748.7	1733.9
15°	1722.7	1726.9	1722.7	1714.9	1703.0
17.5°	1684.0	1684.0	1686.8	1673.4	1664.3
20°	1640.4	1642.5	1642.5	1631.9	1621.4
22.5°	1589.8	1596.1	1598.2	1586.9	1574.3
25°	1530.0	1542.0	1549.0	1537.7	1524.4
27.5°	1457.6	1475.9	1497.0	1488.5	1473.7
30°	1376.7	1403.4	1438.6	1431.6	1421.0
32.5°	1300.1	1326.8	1375.3	1372.5	1366.9
35°	1230.5	1247.3	1304.3	1311.3	1306.4
37.5°	1164.4	1179.8	1233.3	1249.5	1245.2
40°	1094.8	1111.6	1153.8	1182.7	1184.1
42.5°	1025.9	1042.0	1076.5	1118.0	1118.0
45°	952.7	968.9	1000.5	1046.2	1051.9
47.5°	881.0	897.9	928.8	974.5	983.7
50°	810.7	826.2	857.1	901.4	915.5
52.5°	737.6	754.5	784.7	825.5	845.9
55°	667.3	678.5	711.6	750.9	772.7
57.5°	594.1	604.7	642.0	675.7	698.2
60°	523.8	537.2	566.0	600.5	626.5
62.5°	456.3	470.4	495.0	525.2	554.8
65°	390.9	401.5	425.4	455.6	481.6
67.5°	327.7	336.8	360.7	381.8	409.2
70°	263.7	275.6	293.2	313.6	331.2
72.5°	212.3	217.3	232.0	246.8	265.1
75°	156.8	165.2	177.2	185.6	196.2
77.5°	112.5	117.4	124.5	131.5	141.3
80°	75.2	77.3	83.7	85.1	92.8
82.5°	45.7	47.1	48.5	49.2	52.0
85°	24.6	24.6	24.6	23.2	23.2
87.5°	14.1	14.1	12.0	9.8	7.0
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)