

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: P555452

Luminaire Tested: **FUSL-12-2-LD4-3HI-35-UNV-80-96-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: P555452
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-35-UNV-80-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

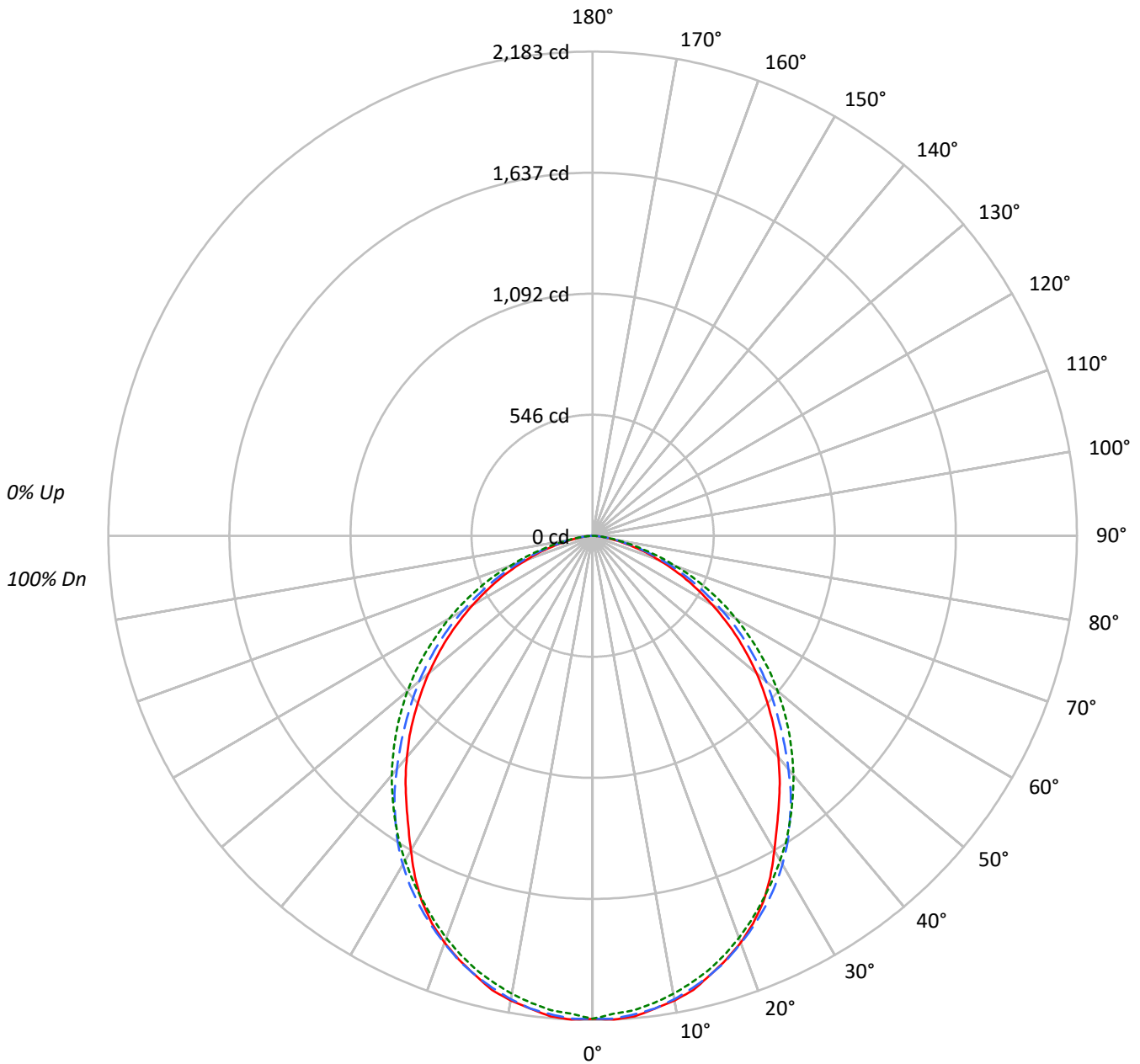
Lumens per Lamp: N/A
Luminaire Lumens: 5035.0 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
Input Voltage (V): NR
Input Current (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									
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	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°	11719	11719	11719
5°	11750	11701	11601
10°	11626	11594	11461
15°	11419	11419	11289
20°	11178	11192	11049
25°	10810	10944	10770
30°	10179	10637	10506
35°	9618	10196	10212
40°	9151	9645	9897
45°	8627	9060	9525
50°	8076	8538	9120
55°	7449	7944	8627
60°	6708	7248	8023
65°	5923	6445	7297
70°	4936	5489	6200
75°	3878	4383	4853
80°	2774	3084	3422
85°	1809	1809	1704



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.0	4.1
10°-20°	576.0	11.4
20°-30°	841.7	16.7
30°-40°	955.4	19.0
40°-50°	922.3	18.3
50°-60°	760.8	15.1
60°-70°	506.6	10.1
70°-80°	226.7	4.5
80°-90°	40.6	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°	1622.6	32.2
0°-40°	2578.0	51.2
0°-60°	4261.1	84.6
0°-90°	5035.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5035.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2178	2178	2178	2178	2178	
5°	2175	2174	2166	2154	2147	206
15°	2050	2054	2050	2040	2026	578
25°	1820	1834	1843	1830	1814	834
35°	1464	1484	1552	1560	1554	917
45°	1134	1153	1190	1245	1252	875
55°	794	807	847	893	919	709
65°	465	478	506	542	573	461
75°	186	197	211	221	233	204
85°	29	29	29	28	28	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2177.5	2177.5	2177.5	2177.5	2177.5
2.5°	2183.4	2184.2	2179.2	2165.8	2157.4
5°	2175.0	2174.2	2165.8	2154.1	2147.4
7.5°	2150.7	2152.4	2149.9	2133.2	2124.0
10°	2127.3	2128.2	2121.5	2108.1	2097.2
12.5°	2097.2	2096.4	2087.2	2080.5	2062.9
15°	2049.5	2054.5	2049.5	2040.3	2026.1
17.5°	2003.5	2003.5	2006.9	1991.0	1980.1
20°	1951.6	1954.2	1954.2	1941.6	1929.1
22.5°	1891.4	1898.9	1901.5	1888.1	1873.0
25°	1820.3	1834.5	1842.9	1829.5	1813.6
27.5°	1734.1	1755.9	1781.0	1771.0	1753.4
30°	1637.9	1669.7	1711.6	1703.2	1690.6
32.5°	1546.8	1578.5	1636.3	1632.9	1626.2
35°	1463.9	1484.0	1551.8	1560.1	1554.3
37.5°	1385.3	1403.7	1467.3	1486.5	1481.5
40°	1302.5	1322.6	1372.8	1407.1	1408.7
42.5°	1220.5	1239.7	1280.7	1330.1	1330.1
45°	1133.5	1152.7	1190.4	1244.8	1251.5
47.5°	1048.2	1068.3	1105.1	1159.4	1170.3
50°	964.5	982.9	1019.7	1072.4	1089.2
52.5°	877.5	897.6	933.6	982.1	1006.4
55°	793.9	807.3	846.6	893.4	919.4
57.5°	706.9	719.4	763.8	803.9	830.7
60°	623.2	639.1	673.4	714.4	745.4
62.5°	542.9	559.6	588.9	624.9	660.0
65°	465.1	477.7	506.1	542.1	573.0
67.5°	389.8	400.7	429.1	454.2	486.9
70°	313.7	327.9	348.8	373.1	394.0
72.5°	252.6	258.5	276.1	293.6	315.4
75°	186.5	196.6	210.8	220.8	233.4
77.5°	133.8	139.7	148.1	156.4	168.1
80°	89.5	92.0	99.5	101.2	110.4
82.5°	54.4	56.0	57.7	58.6	61.9
85°	29.3	29.3	29.3	27.6	27.6
87.5°	16.7	16.7	14.2	11.7	8.4
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)