

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: P555488

Luminaire Tested: **FUSL-12-2-LD4-3HI-35-UNV-93-84-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: P555488
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-93-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

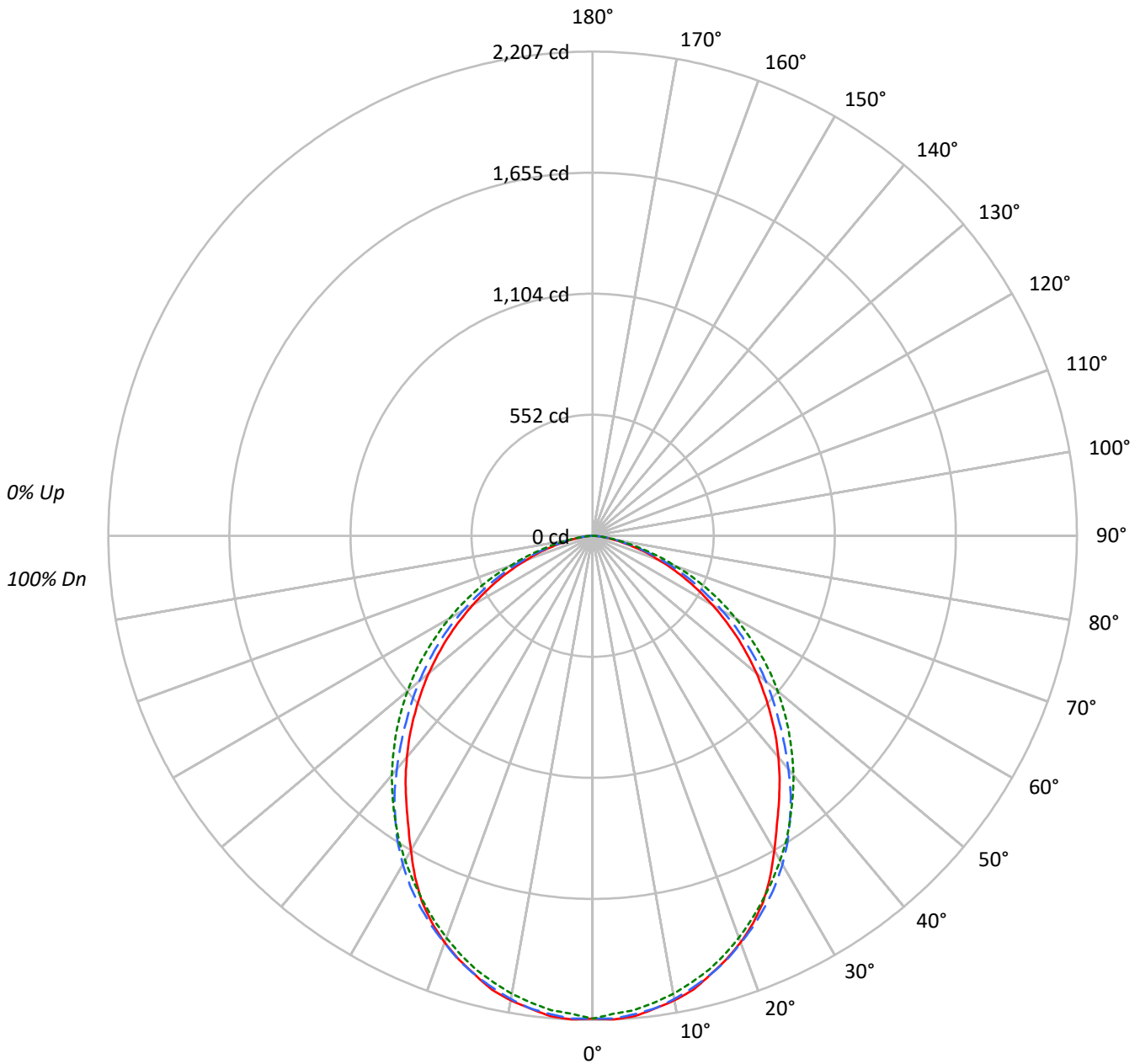
Lumens per Lamp: N/A
Luminaire Lumens: 5089.0 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	11845	11845	11845
5°	11876	11826	11726
10°	11750	11718	11584
15°	11542	11542	11410
20°	11298	11312	11167
25°	10925	11061	10886
30°	10288	10751	10619
35°	9721	10305	10322
40°	9249	9748	10003
45°	8720	9158	9627
50°	8163	8630	9218
55°	7529	8029	8719
60°	6780	7326	8108
65°	5987	6514	7376
70°	4990	5548	6266
75°	3920	4431	4905
80°	2805	3118	3459
85°	1828	1828	1723



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.2	4.1
10°-20°	582.1	11.4
20°-30°	850.7	16.7
30°-40°	965.6	19.0
40°-50°	932.2	18.3
50°-60°	769.0	15.1
60°-70°	512.1	10.1
70°-80°	229.1	4.5
80°-90°	41.0	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°	1640.0	32.2
0°-40°	2605.7	51.2
0°-60°	4306.8	84.6
0°-90°	5089.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5089.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2201	2201	2201	2201	2201	
5°	2198	2198	2189	2177	2170	208
15°	2072	2077	2072	2062	2048	584
25°	1840	1854	1863	1849	1833	843
35°	1480	1500	1568	1577	1571	927
45°	1146	1165	1203	1258	1265	884
55°	802	816	856	903	929	716
65°	470	483	512	548	579	466
75°	188	199	213	223	236	206
85°	30	30	30	28	28	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2200.9	2200.9	2200.9	2200.9	2200.9
2.5°	2206.8	2207.6	2202.6	2189.0	2180.6
5°	2198.3	2197.5	2189.0	2177.2	2170.4
7.5°	2173.8	2175.5	2173.0	2156.0	2146.7
10°	2150.1	2151.0	2144.2	2130.7	2119.7
12.5°	2119.7	2118.8	2109.5	2102.8	2085.0
15°	2071.5	2076.6	2071.5	2062.2	2047.8
17.5°	2025.0	2025.0	2028.4	2012.3	2001.3
20°	1972.6	1975.1	1975.1	1962.4	1949.7
22.5°	1911.7	1919.3	1921.8	1908.3	1893.1
25°	1839.8	1854.2	1862.7	1849.1	1833.1
27.5°	1752.7	1774.7	1800.1	1789.9	1772.2
30°	1655.5	1687.6	1729.9	1721.5	1708.8
32.5°	1563.3	1595.5	1653.8	1650.4	1643.7
35°	1479.6	1499.9	1568.4	1576.9	1571.0
37.5°	1400.2	1418.8	1483.0	1502.5	1497.4
40°	1316.5	1336.8	1387.5	1422.1	1423.8
42.5°	1233.6	1253.0	1294.5	1344.4	1344.4
45°	1145.7	1165.1	1203.2	1258.1	1264.9
47.5°	1059.4	1079.7	1116.9	1171.9	1182.9
50°	974.9	993.5	1030.7	1083.9	1100.9
52.5°	886.9	907.2	943.6	992.6	1017.1
55°	802.4	815.9	855.7	903.0	929.2
57.5°	714.5	727.1	772.0	812.5	839.6
60°	629.9	646.0	680.6	722.1	753.3
62.5°	548.7	565.6	595.2	631.6	667.1
65°	470.1	482.8	511.5	547.9	579.2
67.5°	394.0	405.0	433.7	459.1	492.1
70°	317.1	331.4	352.6	377.1	398.2
72.5°	255.3	261.3	279.0	296.8	318.8
75°	188.5	198.7	213.1	223.2	235.9
77.5°	135.3	141.2	149.7	158.1	169.9
80°	90.5	93.0	100.6	102.3	111.6
82.5°	55.0	56.6	58.3	59.2	62.6
85°	29.6	29.6	29.6	27.9	27.9
87.5°	16.9	16.9	14.4	11.8	8.5
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)