

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: P555625

Luminaire Tested: **FUSL-12-2-LD4-3HI-50-UNV-93-88-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: P555625
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-50-UNV-93-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

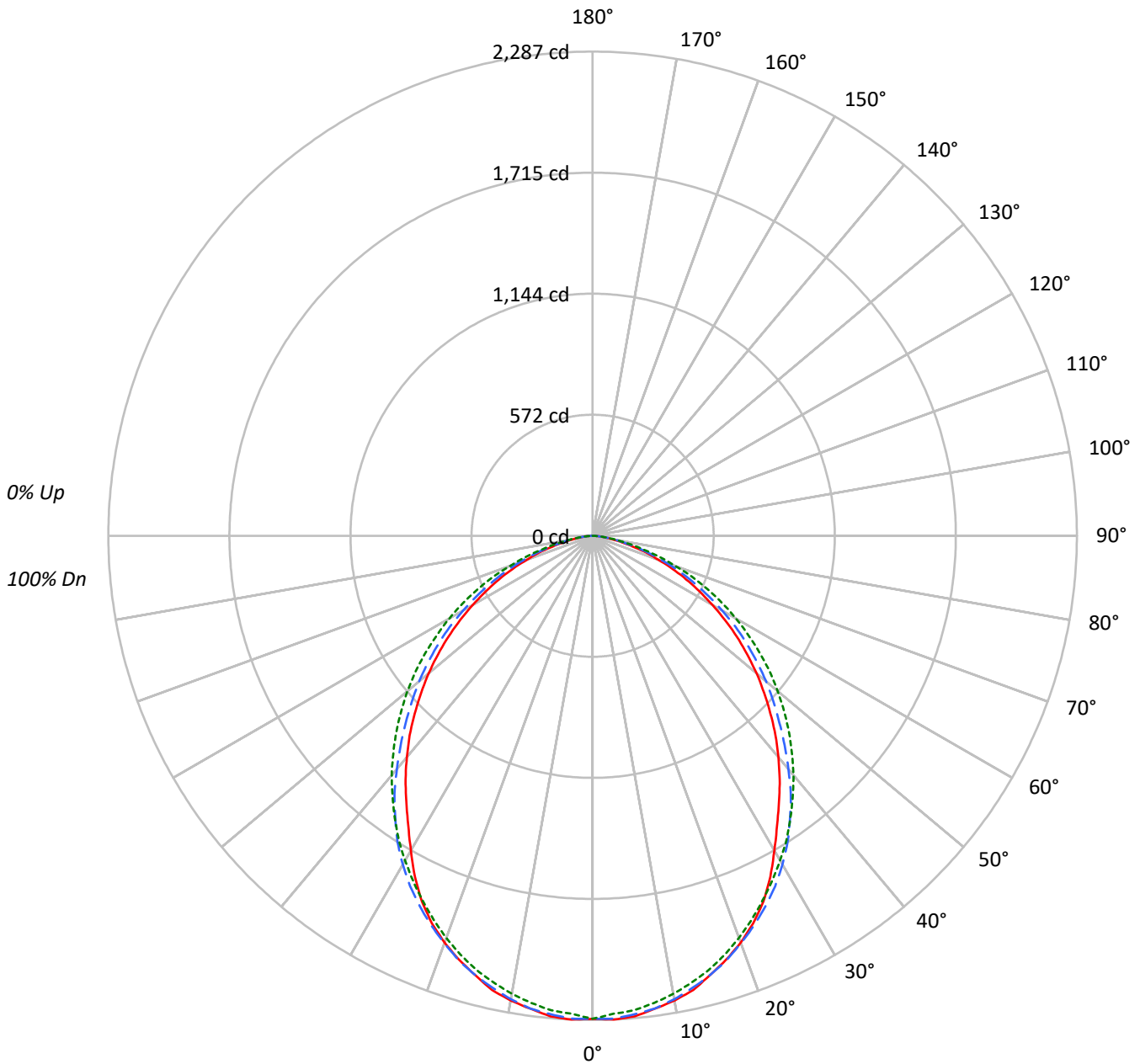
Lumens per Lamp: N/A
Luminaire Lumens: 5275.0 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P555625

CATALOG NUMBER: FUSL-12-2-LD4-3HI-50-UNV-93-88-EDD

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°	12278	12278	12278
5°	12311	12258	12155
10°	12180	12146	12008
15°	11964	11964	11827
20°	11711	11726	11575
25°	11325	11465	11283
30°	10664	11143	11007
35°	10077	10681	10699
40°	9587	10104	10369
45°	9038	9492	9979
50°	8461	8945	9554
55°	7804	8322	9038
60°	7028	7594	8406
65°	6206	6752	7645
70°	5172	5751	6496
75°	4063	4593	5084
80°	2907	3233	3586
85°	1896	1896	1785



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.8	4.1
10°-20°	603.4	11.4
20°-30°	881.8	16.7
30°-40°	1000.9	19.0
40°-50°	966.2	18.3
50°-60°	797.1	15.1
60°-70°	530.8	10.1
70°-80°	237.5	4.5
80°-90°	42.5	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°	1700.0	32.2
0°-40°	2700.9	51.2
0°-60°	4464.2	84.6
0°-90°	5275.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5275.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2281	2281	2281	2281	2281	
5°	2279	2278	2269	2257	2250	216
15°	2147	2152	2147	2138	2123	605
25°	1907	1922	1931	1917	1900	873
35°	1534	1555	1626	1634	1628	961
45°	1188	1208	1247	1304	1311	916
55°	832	846	887	936	963	742
65°	487	500	530	568	600	483
75°	195	206	221	231	244	214
85°	31	31	31	29	29	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2281.3	2281.3	2281.3	2281.3	2281.3
2.5°	2287.4	2288.3	2283.1	2269.0	2260.3
5°	2278.7	2277.8	2269.0	2256.8	2249.8
7.5°	2253.3	2255.0	2252.4	2234.9	2225.2
10°	2228.7	2229.6	2222.6	2208.6	2197.2
12.5°	2197.2	2196.3	2186.6	2179.6	2161.2
15°	2147.2	2152.5	2147.2	2137.6	2122.7
17.5°	2099.0	2099.0	2102.5	2085.9	2074.5
20°	2044.7	2047.3	2047.3	2034.2	2021.0
22.5°	1981.6	1989.5	1992.1	1978.1	1962.3
25°	1907.1	1922.0	1930.7	1916.7	1900.1
27.5°	1816.8	1839.6	1865.9	1855.4	1837.0
30°	1716.0	1749.3	1793.1	1784.4	1771.2
32.5°	1620.5	1653.8	1714.3	1710.8	1703.7
35°	1533.7	1554.8	1625.7	1634.5	1628.4
37.5°	1451.3	1470.6	1537.2	1557.4	1552.1
40°	1364.6	1385.6	1438.2	1474.1	1475.9
42.5°	1278.7	1298.8	1341.8	1393.5	1393.5
45°	1187.5	1207.7	1247.1	1304.1	1311.1
47.5°	1098.1	1119.2	1157.7	1214.7	1226.1
50°	1010.5	1029.8	1068.3	1123.6	1141.1
52.5°	919.4	940.4	978.1	1028.9	1054.3
55°	831.7	845.7	886.9	936.0	963.2
57.5°	740.6	753.7	800.2	842.2	870.3
60°	652.9	669.6	705.5	748.5	780.9
62.5°	568.8	586.3	617.0	654.7	691.5
65°	487.3	500.4	530.2	567.9	600.3
67.5°	408.4	419.8	449.6	475.9	510.1
70°	328.7	343.6	365.5	390.9	412.8
72.5°	264.7	270.8	289.2	307.6	330.4
75°	195.4	206.0	220.9	231.4	244.5
77.5°	140.2	146.4	155.1	163.9	176.2
80°	93.8	96.4	104.3	106.0	115.7
82.5°	57.0	58.7	60.5	61.3	64.9
85°	30.7	30.7	30.7	28.9	28.9
87.5°	17.5	17.5	14.9	12.3	8.8
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)