

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: P555591

Luminaire Tested: **FUSL-12-2-LD4-3HI-50-UNV-81-87-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: P555591
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-81-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

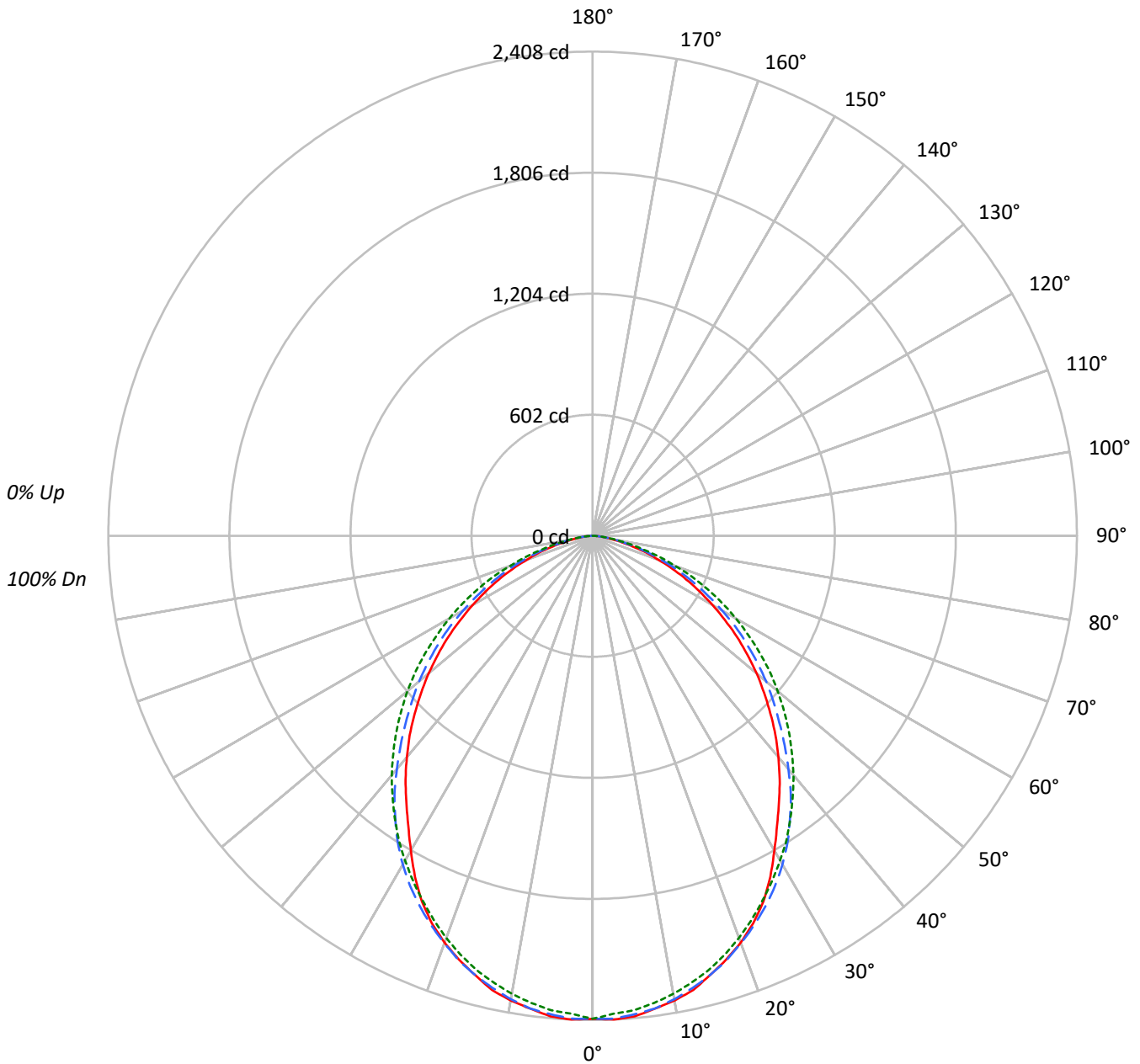
Lumens per Lamp: N/A
Luminaire Lumens: 5554.0 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
Input Voltage (V): NR
Input Current (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									
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°	12927	12927	12927
5°	12962	12907	12797
10°	12824	12789	12643
15°	12597	12597	12452
20°	12330	12346	12187
25°	11924	12072	11880
30°	11228	11733	11590
35°	10609	11246	11265
40°	10094	10639	10917
45°	9516	9994	10507
50°	8908	9419	10059
55°	8217	8762	9515
60°	7400	7995	8850
65°	6534	7110	8050
70°	5445	6055	6839
75°	4279	4835	5355
80°	3059	3403	3775
85°	1995	1995	1883



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.2	4.1
10°-20°	635.3	11.4
20°-30°	928.4	16.7
30°-40°	1053.9	19.0
40°-50°	1017.3	18.3
50°-60°	839.2	15.1
60°-70°	558.9	10.1
70°-80°	250.1	4.5
80°-90°	44.8	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°	1789.9	32.2
0°-40°	2843.8	51.2
0°-60°	4700.3	84.6
0°-90°	5554.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5554.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2402	2402	2402	2402	2402	
5°	2399	2398	2389	2376	2369	227
15°	2261	2266	2261	2251	2235	637
25°	2008	2024	2033	2018	2001	920
35°	1615	1637	1712	1721	1714	1012
45°	1250	1272	1313	1373	1380	965
55°	876	890	934	986	1014	782
65°	513	527	558	598	632	509
75°	206	217	232	244	258	225
85°	32	32	32	30	30	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2402.0	2402.0	2402.0	2402.0	2402.0
2.5°	2408.4	2409.3	2403.8	2389.0	2379.8
5°	2399.2	2398.3	2389.0	2376.1	2368.7
7.5°	2372.4	2374.3	2371.5	2353.1	2342.9
10°	2346.6	2347.5	2340.1	2325.4	2313.4
12.5°	2313.4	2312.5	2302.3	2294.9	2275.5
15°	2260.8	2266.3	2260.8	2250.6	2234.9
17.5°	2210.0	2210.0	2213.7	2196.2	2184.2
20°	2152.8	2155.6	2155.6	2141.7	2127.9
22.5°	2086.4	2094.7	2097.4	2082.7	2066.1
25°	2007.9	2023.6	2032.9	2018.1	2000.6
27.5°	1912.9	1936.9	1964.6	1953.5	1934.1
30°	1806.8	1841.8	1888.0	1878.8	1864.9
32.5°	1706.2	1741.3	1804.9	1801.2	1793.9
35°	1614.8	1637.0	1711.7	1721.0	1714.5
37.5°	1528.1	1548.4	1618.5	1639.8	1634.2
40°	1436.7	1458.9	1514.3	1552.1	1553.9
42.5°	1346.3	1367.5	1412.8	1467.2	1467.2
45°	1250.3	1271.6	1313.1	1373.1	1380.5
47.5°	1156.2	1178.4	1219.0	1279.0	1291.0
50°	1063.9	1084.3	1124.9	1183.0	1201.4
52.5°	968.0	990.1	1029.8	1083.3	1110.1
55°	875.7	890.5	933.8	985.5	1014.1
57.5°	779.7	793.6	842.5	886.8	916.3
60°	687.5	705.0	742.8	788.0	822.2
62.5°	598.9	617.3	649.6	689.3	728.1
65°	513.1	526.9	558.3	598.0	632.1
67.5°	430.0	442.0	473.4	501.1	537.1
70°	346.0	361.7	384.8	411.6	434.6
72.5°	278.7	285.1	304.5	323.9	347.9
75°	205.8	216.9	232.5	243.6	257.5
77.5°	147.6	154.1	163.3	172.6	185.5
80°	98.7	101.5	109.8	111.7	121.8
82.5°	60.0	61.8	63.7	64.6	68.3
85°	32.3	32.3	32.3	30.5	30.5
87.5°	18.5	18.5	15.7	12.9	9.2
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)