

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: P555531

Luminaire Tested: **FUSL-12-2-LD4-3HI-40-UNV-81-94-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: P555531
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-40-UNV-81-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

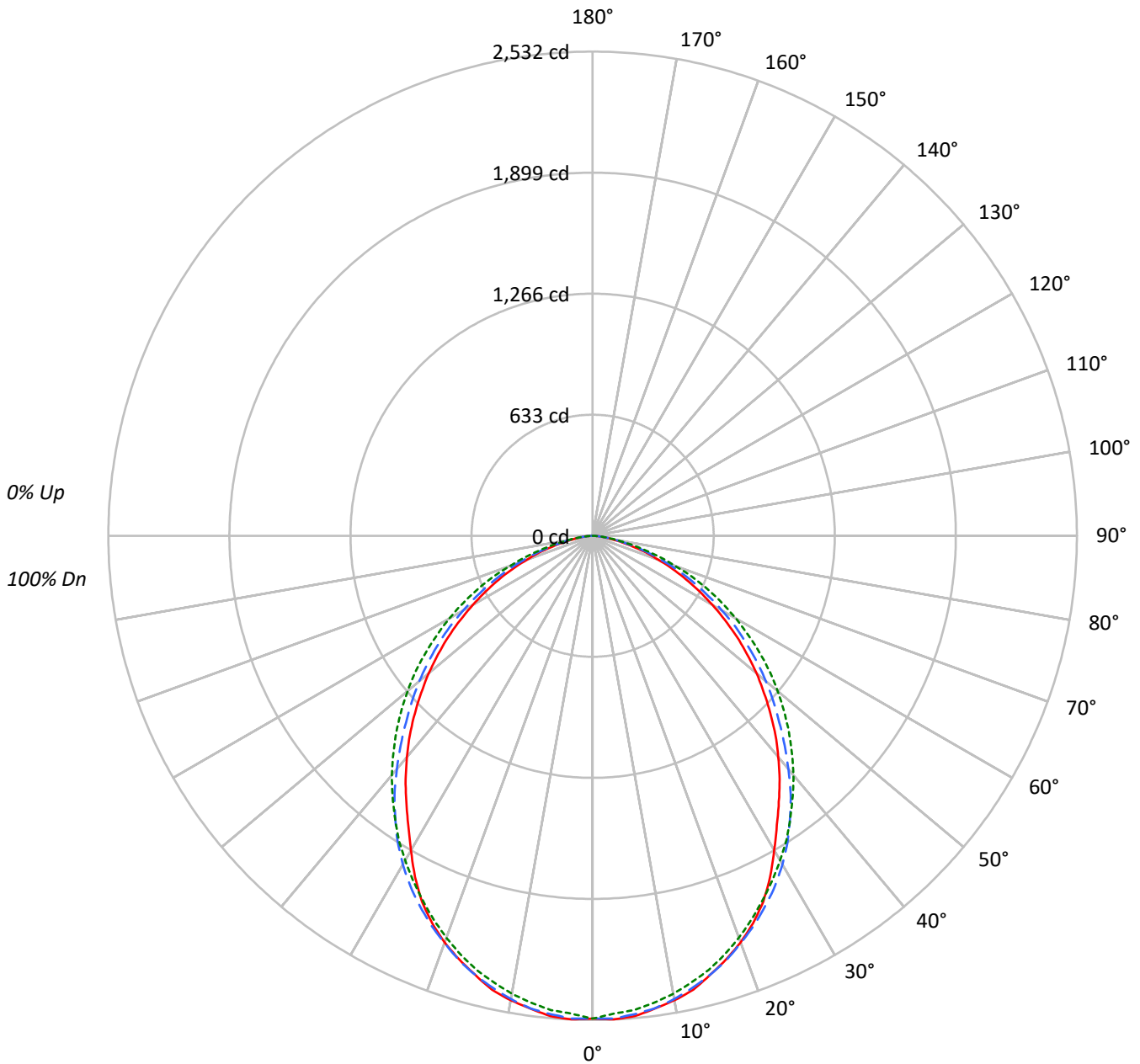
Lumens per Lamp: N/A
Luminaire Lumens: 5838.0 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P555531

CATALOG NUMBER: FUSL-12-2-LD4-3HI-40-UNV-81-94-EDD

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°	13588	13588	13588
5°	13625	13567	13452
10°	13480	13443	13289
15°	13241	13241	13089
20°	12960	12977	12810
25°	12533	12689	12488
30°	11803	12333	12182
35°	11152	11822	11841
40°	10610	11183	11476
45°	10003	10505	11044
50°	9364	9900	10574
55°	8637	9211	10002
60°	7778	8404	9302
65°	6868	7473	8461
70°	5723	6365	7188
75°	4498	5082	5627
80°	3217	3577	3967
85°	2093	2093	1976



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.7	4.1
10°-20°	667.8	11.4
20°-30°	975.9	16.7
30°-40°	1107.7	19.0
40°-50°	1069.4	18.3
50°-60°	882.2	15.1
60°-70°	587.4	10.1
70°-80°	262.9	4.5
80°-90°	47.0	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°	1881.4	32.2
0°-40°	2989.2	51.2
0°-60°	4940.7	84.6
0°-90°	5838.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5838.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2525	2525	2525	2525	2525	
5°	2522	2521	2511	2498	2490	239
15°	2376	2382	2376	2366	2349	670
25°	2111	2127	2137	2121	2103	967
35°	1697	1721	1799	1809	1802	1064
45°	1314	1337	1380	1443	1451	1014
55°	920	936	982	1036	1066	822
65°	539	554	587	628	664	535
75°	216	228	244	256	271	237
85°	34	34	34	32	32	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2524.8	2524.8	2524.8	2524.8	2524.8
2.5°	2531.6	2532.5	2526.7	2511.2	2501.5
5°	2521.9	2520.9	2511.2	2497.6	2489.9
7.5°	2493.7	2495.7	2492.8	2473.4	2462.7
10°	2466.6	2467.6	2459.8	2444.3	2431.7
12.5°	2431.7	2430.7	2420.0	2412.3	2391.9
15°	2376.4	2382.2	2376.4	2365.7	2349.2
17.5°	2323.0	2323.0	2326.9	2308.5	2295.9
20°	2262.9	2265.8	2265.8	2251.3	2236.7
22.5°	2193.1	2201.8	2204.7	2189.2	2171.7
25°	2110.6	2127.1	2136.8	2121.3	2102.9
27.5°	2010.7	2035.9	2065.0	2053.4	2033.0
30°	1899.2	1936.0	1984.5	1974.8	1960.3
32.5°	1793.4	1830.3	1897.2	1893.3	1885.6
35°	1697.4	1720.7	1799.3	1809.0	1802.2
37.5°	1606.2	1627.6	1701.3	1723.6	1717.8
40°	1510.2	1533.5	1591.7	1631.5	1633.4
42.5°	1415.2	1437.5	1485.0	1542.2	1542.2
45°	1314.3	1336.6	1380.2	1443.3	1451.0
47.5°	1215.3	1238.6	1281.3	1344.4	1357.0
50°	1118.4	1139.7	1182.4	1243.5	1262.9
52.5°	1017.5	1040.8	1082.5	1138.7	1166.9
55°	920.5	936.0	981.6	1035.9	1066.0
57.5°	819.6	834.2	885.6	932.1	963.2
60°	722.6	741.0	780.8	828.3	864.2
62.5°	629.5	648.9	682.8	724.6	765.3
65°	539.3	553.8	586.8	628.5	664.4
67.5°	452.0	464.6	497.6	526.7	564.5
70°	363.7	380.2	404.5	432.6	456.8
72.5°	292.9	299.7	320.1	340.5	365.7
75°	216.3	227.9	244.4	256.1	270.6
77.5°	155.2	162.0	171.7	181.4	195.0
80°	103.8	106.7	115.4	117.4	128.0
82.5°	63.0	65.0	66.9	67.9	71.8
85°	33.9	33.9	33.9	32.0	32.0
87.5°	19.4	19.4	16.5	13.6	9.7
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)