

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: P554803

Luminaire Tested: **FUSL-12-2-LD4-2HI-50-UNV-80-85-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: P554803
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-LD4-2HI-50-UNV-80-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

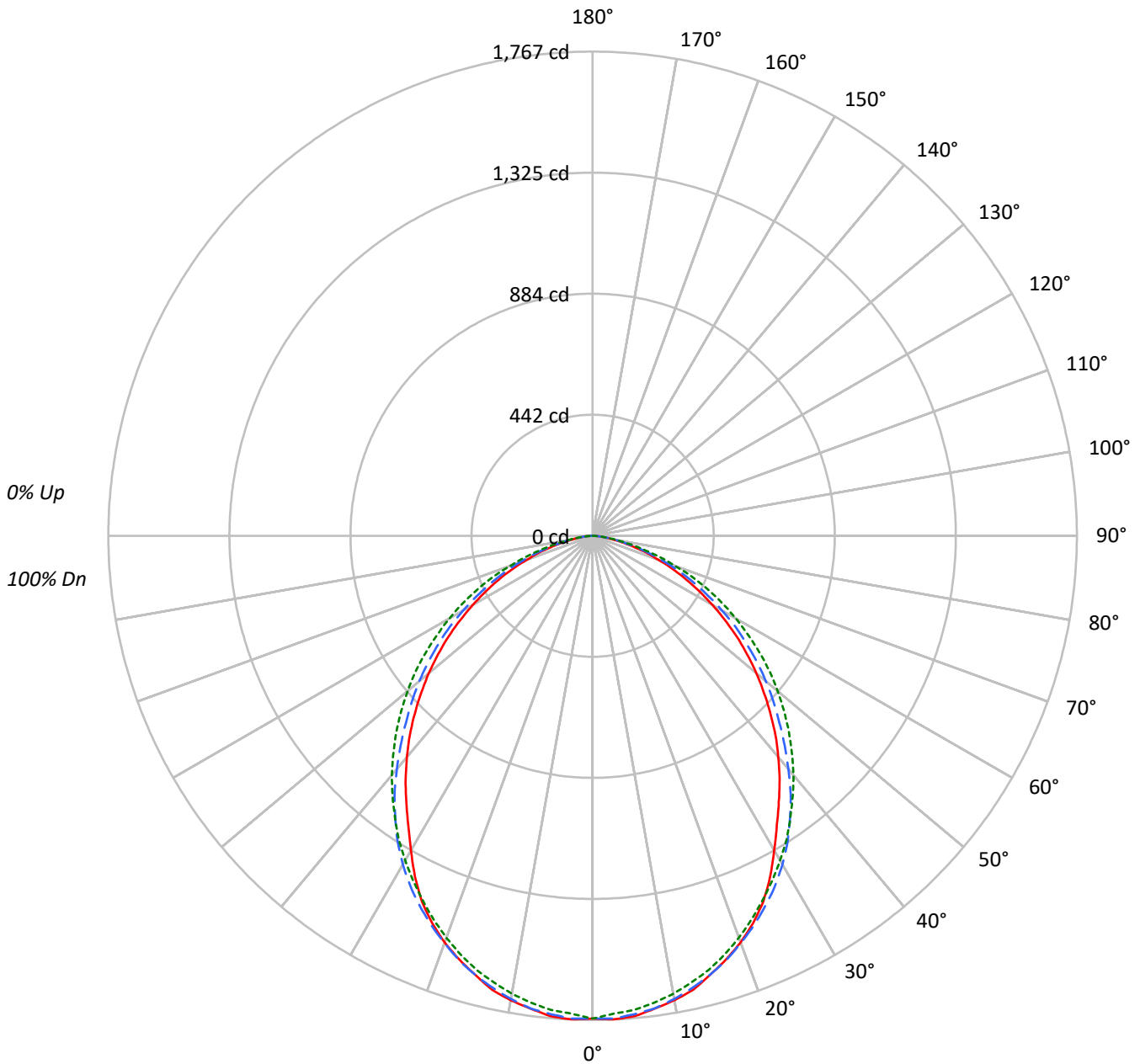
Lumens per Lamp: N/A
Luminaire Lumens: 4074.0 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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°	9482	9482	9482
5°	9508	9467	9387
10°	9407	9381	9274
15°	9240	9240	9134
20°	9044	9056	8940
25°	8747	8855	8715
30°	8236	8607	8502
35°	7782	8249	8263
40°	7404	7803	8009
45°	6981	7331	7707
50°	6534	6908	7379
55°	6028	6427	6980
60°	5428	5865	6492
65°	4792	5215	5905
70°	3994	4442	5017
75°	3138	3548	3926
80°	2244	2495	2768
85°	1463	1463	1377



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.9	4.1
10°-20°	466.0	11.4
20°-30°	681.0	16.7
30°-40°	773.0	19.0
40°-50°	746.2	18.3
50°-60°	615.6	15.1
60°-70°	409.9	10.1
70°-80°	183.4	4.5
80°-90°	32.8	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°	1312.9	32.2
0°-40°	2086.0	51.2
0°-60°	3447.8	84.6
0°-90°	4074.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4074.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1762	1762	1762	1762	1762	
5°	1760	1759	1752	1743	1738	167
15°	1658	1662	1658	1651	1639	467
25°	1473	1484	1491	1480	1468	675
35°	1184	1201	1256	1262	1258	742
45°	917	933	963	1007	1013	708
55°	642	653	685	723	744	573
65°	376	386	410	439	464	373
75°	151	159	171	179	189	165
85°	24	24	24	22	22	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1761.9	1761.9	1761.9	1761.9	1761.9
2.5°	1766.6	1767.3	1763.3	1752.4	1745.7
5°	1759.9	1759.2	1752.4	1742.9	1737.5
7.5°	1740.2	1741.6	1739.6	1726.0	1718.6
10°	1721.3	1722.0	1716.5	1705.7	1696.9
12.5°	1696.9	1696.2	1688.8	1683.4	1669.2
15°	1658.3	1662.4	1658.3	1650.9	1639.4
17.5°	1621.1	1621.1	1623.8	1611.0	1602.2
20°	1579.1	1581.2	1581.2	1571.0	1560.9
22.5°	1530.4	1536.5	1538.5	1527.7	1515.5
25°	1472.9	1484.4	1491.2	1480.3	1467.5
27.5°	1403.2	1420.8	1441.1	1432.9	1418.7
30°	1325.3	1351.0	1384.9	1378.1	1368.0
32.5°	1251.5	1277.3	1324.0	1321.3	1315.8
35°	1184.5	1200.8	1255.6	1262.4	1257.6
37.5°	1120.9	1135.8	1187.2	1202.8	1198.7
40°	1053.9	1070.1	1110.7	1138.5	1139.9
42.5°	987.6	1003.1	1036.3	1076.2	1076.2
45°	917.2	932.7	963.2	1007.2	1012.6
47.5°	848.1	864.4	894.1	938.1	946.9
50°	780.4	795.3	825.1	867.8	881.3
52.5°	710.0	726.3	755.4	794.6	814.3
55°	642.4	653.2	685.0	722.9	743.9
57.5°	572.0	582.1	618.0	650.5	672.1
60°	504.3	517.1	544.9	578.0	603.1
62.5°	439.3	452.8	476.5	505.6	534.1
65°	376.3	386.5	409.5	438.6	463.7
67.5°	315.4	324.2	347.2	367.5	393.9
70°	253.8	265.3	282.3	301.9	318.8
72.5°	204.4	209.2	223.4	237.6	255.2
75°	150.9	159.1	170.6	178.7	188.8
77.5°	108.3	113.0	119.8	126.6	136.1
80°	72.4	74.5	80.5	81.9	89.3
82.5°	44.0	45.4	46.7	47.4	50.1
85°	23.7	23.7	23.7	22.3	22.3
87.5°	13.5	13.5	11.5	9.5	6.8
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)