

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: P554737

Luminaire Tested: **FUSL-12-2-LD4-2HI-40-UNV-80-84-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: P554737
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-40-UNV-80-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

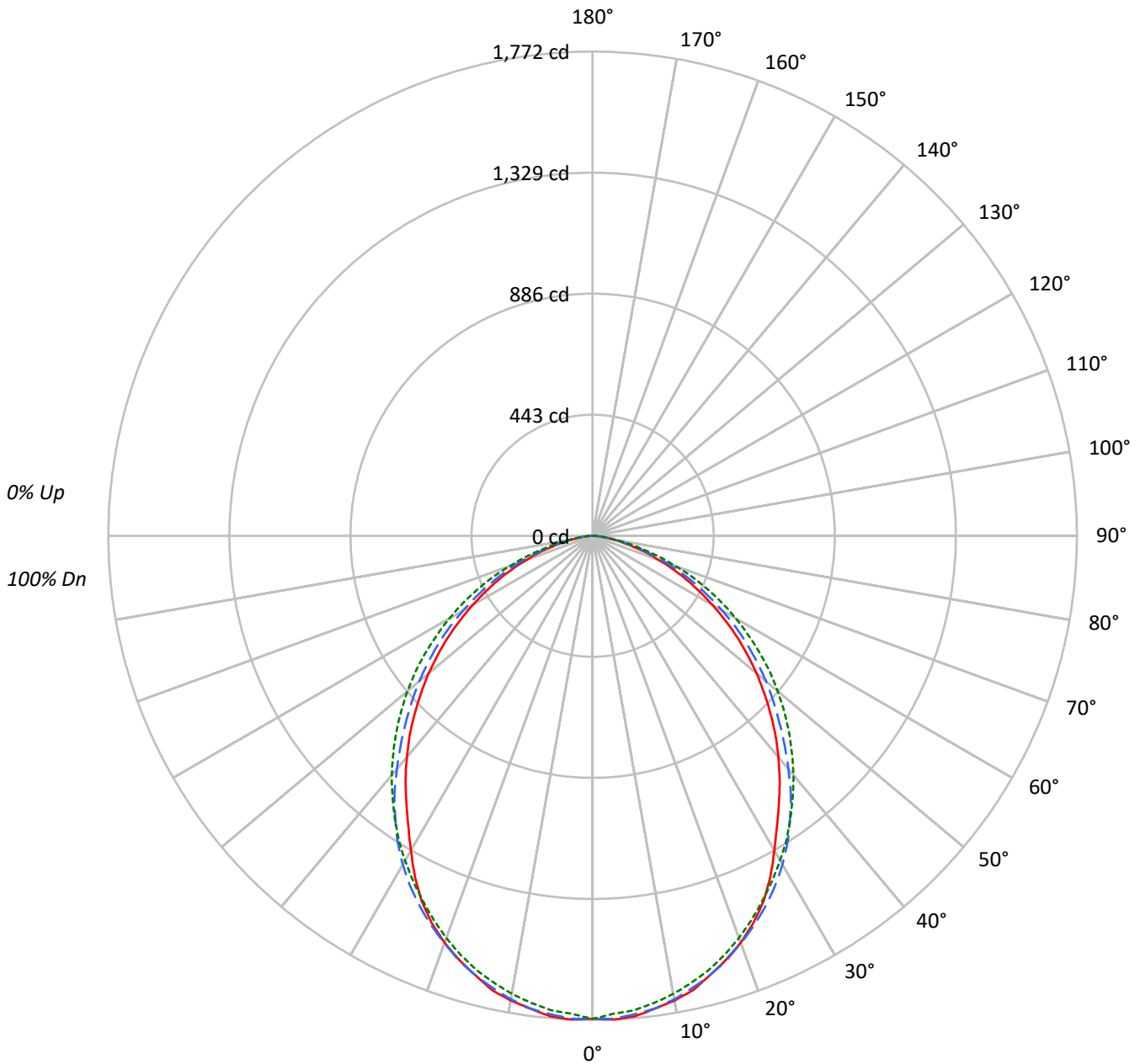
Lumens per Lamp: N/A
Luminaire Lumens: 4087.0 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	9513	9513	9513
5°	9538	9498	9417
10°	9437	9411	9303
15°	9269	9269	9163
20°	9073	9085	8968
25°	8774	8883	8742
30°	8262	8634	8528
35°	7807	8276	8289
40°	7428	7829	8034
45°	7003	7355	7731
50°	6555	6930	7402
55°	6047	6448	7003
60°	5445	5884	6512
65°	4807	5231	5923
70°	4006	4456	5032
75°	3148	3558	3941
80°	2253	2504	2777
85°	1470	1470	1383



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.4	4.1
10°-20°	467.5	11.4
20°-30°	683.2	16.7
30°-40°	775.5	19.0
40°-50°	748.6	18.3
50°-60°	617.6	15.1
60°-70°	411.2	10.1
70°-80°	184.0	4.5
80°-90°	32.9	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°	1317.1	32.2
0°-40°	2092.6	51.2
0°-60°	3458.8	84.6
0°-90°	4087.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4087.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1768	1768	1768	1768	1768	
5°	1766	1765	1758	1748	1743	167
15°	1664	1668	1664	1656	1645	469
25°	1478	1489	1496	1485	1472	677
35°	1188	1205	1260	1266	1262	745
45°	920	936	966	1010	1016	710
55°	644	655	687	725	746	575
65°	378	388	411	440	465	374
75°	151	160	171	179	190	166
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°	1767.5	1767.5	1767.5	1767.5	1767.5
2.5°	1772.3	1773.0	1768.9	1758.0	1751.2
5°	1765.5	1764.8	1758.0	1748.5	1743.1
7.5°	1745.8	1747.2	1745.1	1731.5	1724.1
10°	1726.8	1727.5	1722.0	1711.2	1702.3
12.5°	1702.3	1701.7	1694.2	1688.8	1674.5
15°	1663.6	1667.7	1663.6	1656.2	1644.6
17.5°	1626.3	1626.3	1629.0	1616.1	1607.3
20°	1584.2	1586.2	1586.2	1576.0	1565.8
22.5°	1535.3	1541.4	1543.4	1532.6	1520.4
25°	1477.6	1489.1	1495.9	1485.0	1472.1
27.5°	1407.6	1425.3	1445.7	1437.5	1423.3
30°	1329.5	1355.3	1389.3	1382.5	1372.3
32.5°	1255.5	1281.3	1328.2	1325.5	1320.0
35°	1188.3	1204.6	1259.6	1266.4	1261.6
37.5°	1124.5	1139.4	1191.0	1206.6	1202.6
40°	1057.3	1073.6	1114.3	1142.1	1143.5
42.5°	990.7	1006.3	1039.6	1079.7	1079.7
45°	920.1	935.7	966.3	1010.4	1015.8
47.5°	850.8	867.1	897.0	941.1	950.0
50°	782.9	797.9	827.7	870.5	884.1
52.5°	712.3	728.6	757.8	797.2	816.9
55°	644.4	655.3	687.2	725.2	746.3
57.5°	573.8	584.0	620.0	652.6	674.3
60°	505.9	518.8	546.6	579.9	605.0
62.5°	440.7	454.3	478.0	507.2	535.8
65°	377.5	387.7	410.8	440.0	465.1
67.5°	316.4	325.3	348.3	368.7	395.2
70°	254.6	266.2	283.2	302.8	319.8
72.5°	205.1	209.8	224.1	238.3	256.0
75°	151.4	159.6	171.1	179.3	189.5
77.5°	108.6	113.4	120.2	127.0	136.5
80°	72.7	74.7	80.8	82.2	89.6
82.5°	44.1	45.5	46.9	47.5	50.2
85°	23.8	23.8	23.8	22.4	22.4
87.5°	13.6	13.6	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)