

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: P556050

Luminaire Tested: **FUSL-12-2-LD4-3STD-40-UNV-82-85-EDD-90**

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: P556050
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-LD4-3STD-40-UNV-82-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

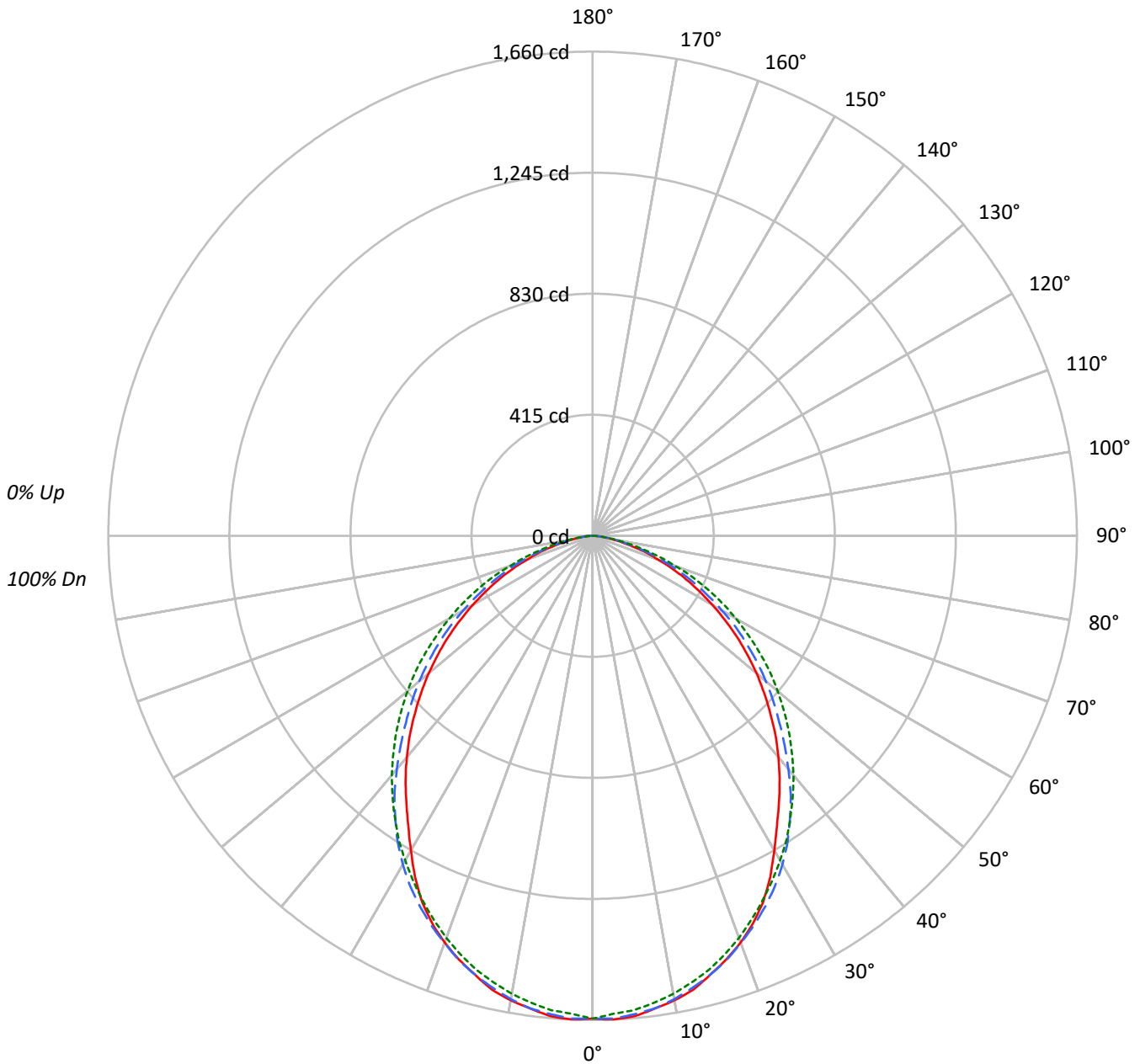
Lumens per Lamp: N/A
Luminaire Lumens: 3828.0 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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°	8910	8910	8910
5°	8934	8896	8820
10°	8839	8814	8714
15°	8682	8682	8583
20°	8498	8509	8400
25°	8218	8320	8188
30°	7739	8087	7988
35°	7313	7751	7764
40°	6957	7333	7524
45°	6559	6888	7242
50°	6140	6491	6934
55°	5664	6039	6559
60°	5100	5511	6100
65°	4503	4900	5549
70°	3753	4173	4714
75°	2949	3333	3689
80°	2111	2346	2603
85°	1377	1377	1297



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.9	4.1
10°-20°	437.9	11.4
20°-30°	639.9	16.7
30°-40°	726.4	19.0
40°-50°	701.2	18.3
50°-60°	578.4	15.1
60°-70°	385.2	10.1
70°-80°	172.4	4.5
80°-90°	30.8	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°	1233.7	32.2
0°-40°	1960.0	51.2
0°-60°	3239.6	84.6
0°-90°	3828.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3828.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1656	1656	1656	1656	1656	
5°	1654	1653	1647	1638	1633	157
15°	1558	1562	1558	1551	1540	439
25°	1384	1395	1401	1391	1379	634
35°	1113	1128	1180	1186	1182	697
45°	862	876	905	946	952	665
55°	604	614	644	679	699	539
65°	354	363	385	412	436	351
75°	142	150	160	168	177	155
85°	22	22	22	21	21	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1655.5	1655.5	1655.5	1655.5	1655.5
2.5°	1660.0	1660.6	1656.8	1646.6	1640.2
5°	1653.6	1653.0	1646.6	1637.7	1632.6
7.5°	1635.2	1636.4	1634.5	1621.8	1614.8
10°	1617.4	1618.0	1612.9	1602.7	1594.5
12.5°	1594.5	1593.8	1586.8	1581.7	1568.4
15°	1558.2	1562.0	1558.2	1551.2	1540.4
17.5°	1523.2	1523.2	1525.8	1513.7	1505.4
20°	1483.8	1485.7	1485.7	1476.2	1466.6
22.5°	1438.0	1443.7	1445.6	1435.5	1424.0
25°	1383.9	1394.8	1401.1	1390.9	1378.9
27.5°	1318.4	1335.0	1354.0	1346.4	1333.1
30°	1245.3	1269.5	1301.3	1294.9	1285.4
32.5°	1176.0	1200.1	1244.0	1241.5	1236.4
35°	1113.0	1128.3	1179.8	1186.1	1181.7
37.5°	1053.2	1067.2	1115.5	1130.2	1126.4
40°	990.3	1005.5	1043.7	1069.8	1071.0
42.5°	927.9	942.6	973.7	1011.2	1011.2
45°	861.8	876.4	905.0	946.4	951.5
47.5°	796.9	812.2	840.2	881.5	889.8
50°	733.3	747.3	775.3	815.4	828.1
52.5°	667.2	682.4	709.8	746.7	765.1
55°	603.6	613.7	643.6	679.2	699.0
57.5°	537.4	547.0	580.7	611.2	631.5
60°	473.8	485.9	512.0	543.1	566.7
62.5°	412.8	425.5	447.7	475.1	501.8
65°	353.6	363.2	384.8	412.1	435.7
67.5°	296.4	304.6	326.3	345.3	370.2
70°	238.5	249.3	265.2	283.7	299.6
72.5°	192.1	196.5	209.9	223.2	239.8
75°	141.8	149.5	160.3	167.9	177.4
77.5°	101.8	106.2	112.6	118.9	127.8
80°	68.1	70.0	75.7	77.0	84.0
82.5°	41.3	42.6	43.9	44.5	47.1
85°	22.3	22.3	22.3	21.0	21.0
87.5°	12.7	12.7	10.8	8.9	6.4
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)