

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: P554791

Luminaire Tested: **FUSL-12-2-LD4-2HI-40-UNV-93-87-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: P554791
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-93-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

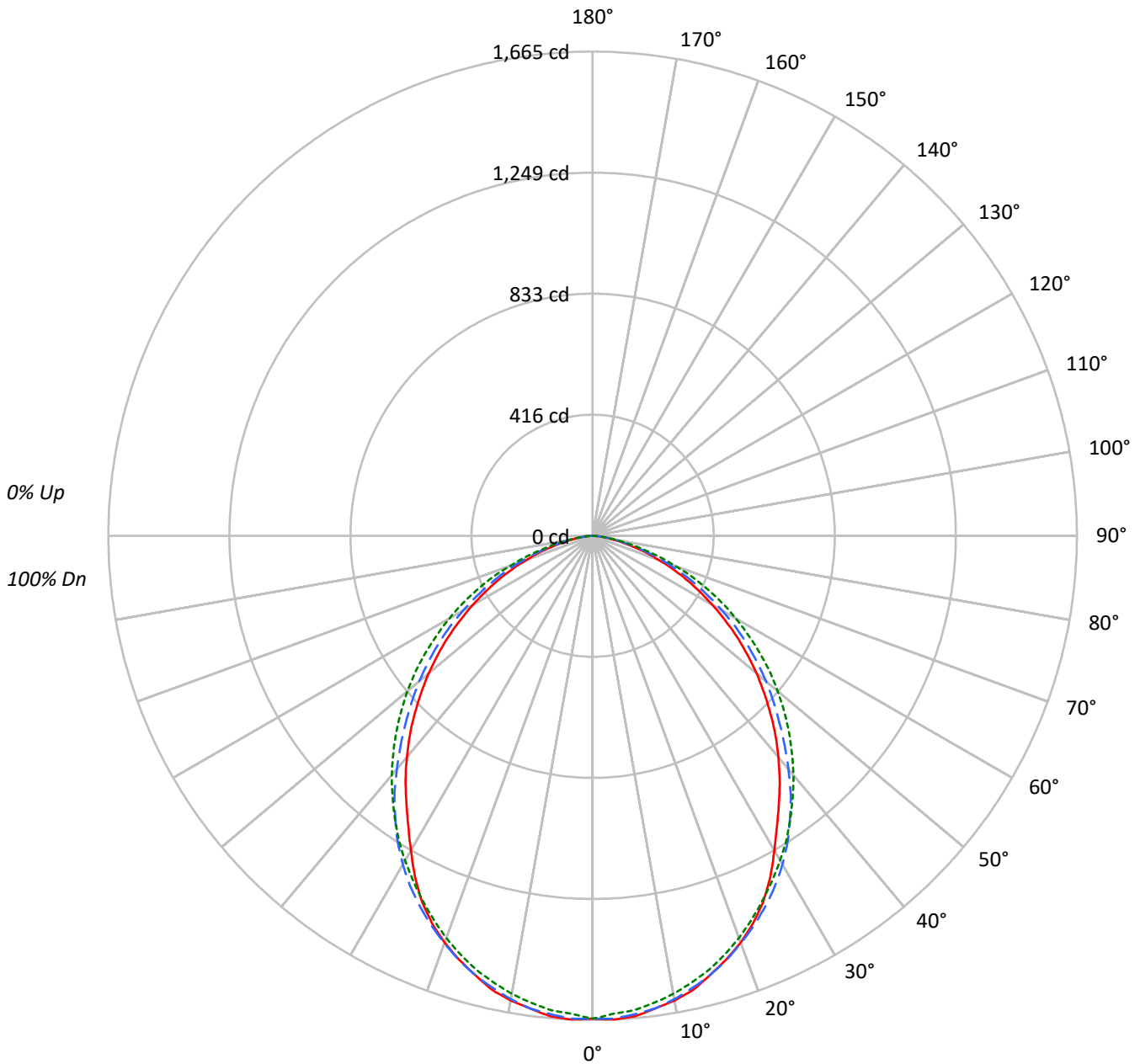
Lumens per Lamp: N/A
Luminaire Lumens: 3840.0 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
Input Voltage (V): NR
Input Current (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

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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°	8938	8938	8938
5°	8962	8924	8848
10°	8866	8842	8741
15°	8709	8709	8610
20°	8525	8536	8426
25°	8244	8346	8214
30°	7763	8112	8013
35°	7336	7776	7788
40°	6979	7355	7548
45°	6580	6910	7264
50°	6159	6512	6955
55°	5682	6059	6579
60°	5116	5528	6119
65°	4517	4916	5565
70°	3764	4186	4729
75°	2959	3344	3701
80°	2117	2352	2610
85°	1377	1377	1303



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.4	4.1
10°-20°	439.3	11.4
20°-30°	641.9	16.7
30°-40°	728.6	19.0
40°-50°	703.4	18.3
50°-60°	580.2	15.1
60°-70°	386.4	10.1
70°-80°	172.9	4.5
80°-90°	30.9	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°	1237.5	32.2
0°-40°	1966.2	51.2
0°-60°	3249.8	84.6
0°-90°	3840.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3840.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1661	1661	1661	1661	1661	
5°	1659	1658	1652	1643	1638	157
15°	1563	1567	1563	1556	1545	441
25°	1388	1399	1406	1395	1383	636
35°	1116	1132	1184	1190	1185	700
45°	864	879	908	949	954	667
55°	606	616	646	681	701	540
65°	355	364	386	413	437	352
75°	142	150	161	168	178	156
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°	1660.7	1660.7	1660.7	1660.7	1660.7
2.5°	1665.2	1665.8	1662.0	1651.8	1645.4
5°	1658.8	1658.1	1651.8	1642.8	1637.7
7.5°	1640.3	1641.6	1639.6	1626.9	1619.9
10°	1622.4	1623.1	1618.0	1607.7	1599.5
12.5°	1599.5	1598.8	1591.8	1586.7	1573.3
15°	1563.1	1566.9	1563.1	1556.1	1545.2
17.5°	1528.0	1528.0	1530.5	1518.4	1510.1
20°	1488.4	1490.4	1490.4	1480.8	1471.2
22.5°	1442.5	1448.2	1450.2	1440.0	1428.5
25°	1388.3	1399.1	1405.5	1395.3	1383.2
27.5°	1322.6	1339.2	1358.3	1350.6	1337.2
30°	1249.2	1273.4	1305.3	1299.0	1289.4
32.5°	1179.7	1203.9	1247.9	1245.4	1240.3
35°	1116.5	1131.8	1183.5	1189.9	1185.4
37.5°	1056.5	1070.6	1119.0	1133.7	1129.9
40°	993.4	1008.7	1046.9	1073.1	1074.4
42.5°	930.8	945.5	976.8	1014.4	1014.4
45°	864.5	879.2	907.9	949.3	954.4
47.5°	799.4	814.7	842.8	884.3	892.6
50°	735.6	749.6	777.7	817.9	830.7
52.5°	669.3	684.6	712.0	749.0	767.5
55°	605.5	615.7	645.7	681.4	701.2
57.5°	539.1	548.7	582.5	613.1	633.5
60°	475.3	487.4	513.6	544.8	568.5
62.5°	414.1	426.8	449.1	476.6	503.4
65°	354.7	364.3	386.0	413.4	437.0
67.5°	297.3	305.6	327.3	346.4	371.3
70°	239.2	250.1	266.0	284.5	300.5
72.5°	192.7	197.1	210.5	223.9	240.5
75°	142.3	149.9	160.8	168.4	178.0
77.5°	102.1	106.5	112.9	119.3	128.2
80°	68.3	70.2	75.9	77.2	84.2
82.5°	41.5	42.7	44.0	44.7	47.2
85°	22.3	22.3	22.3	21.1	21.1
87.5°	12.8	12.8	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)