

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: P555392

Luminaire Tested: **FUSL-12-2-LD4-3HI-30-UNV-81-84-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: P555392
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-30-UNV-81-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

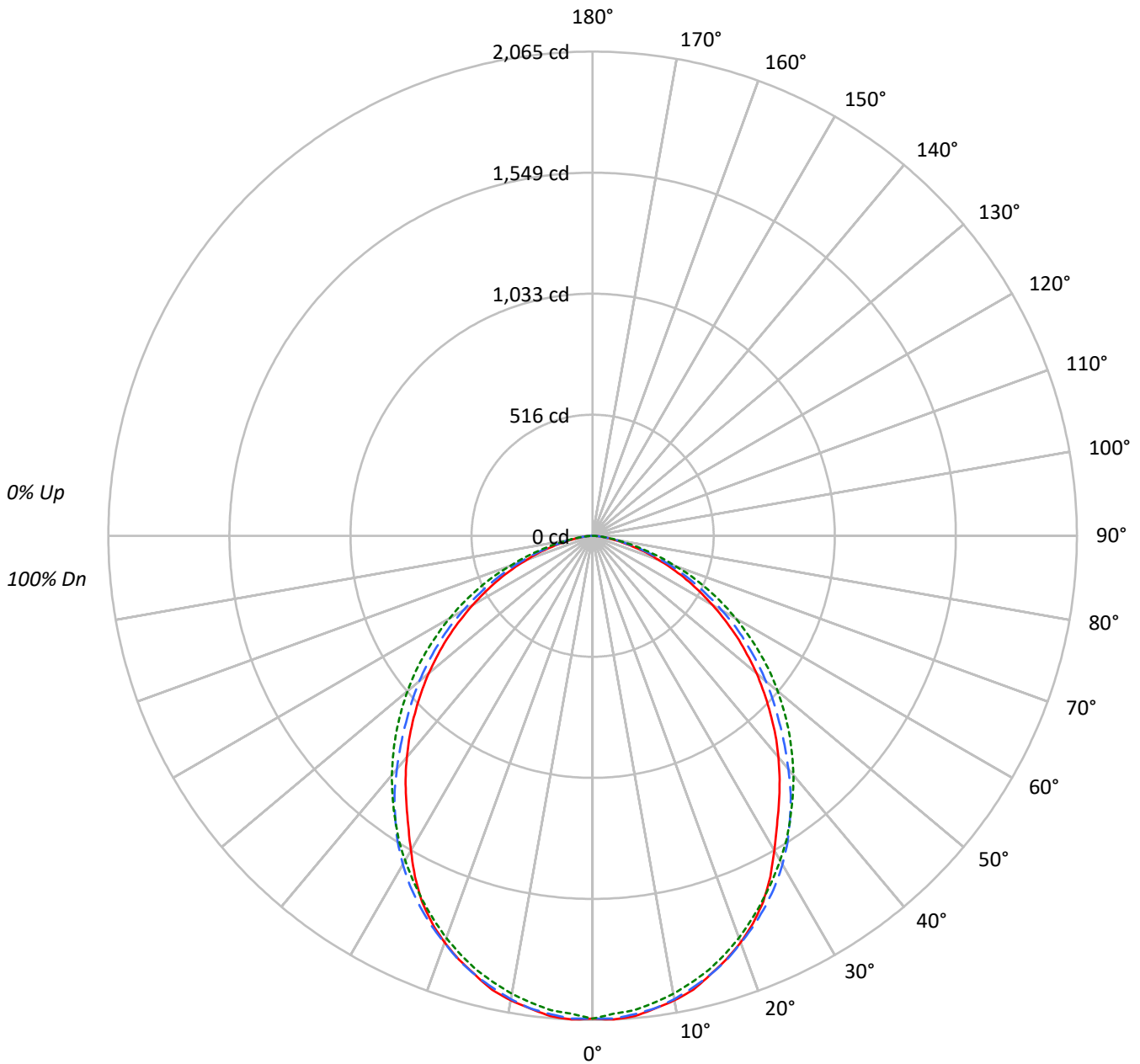
Lumens per Lamp: N/A
Luminaire Lumens: 4762.0 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
Input Voltage (V): NR
Input Current (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°	11084	11084	11084
5°	11114	11067	10973
10°	10996	10965	10840
15°	10800	10800	10677
20°	10572	10585	10450
25°	10223	10351	10186
30°	9627	10060	9937
35°	9097	9642	9658
40°	8655	9121	9360
45°	8159	8569	9009
50°	7638	8075	8625
55°	7045	7513	8159
60°	6344	6856	7587
65°	5602	6096	6902
70°	4669	5191	5863
75°	3668	4146	4589
80°	2625	2920	3236
85°	1711	1711	1612



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.9	4.1
10°-20°	544.7	11.4
20°-30°	796.0	16.7
30°-40°	903.6	19.0
40°-50°	872.3	18.3
50°-60°	719.5	15.1
60°-70°	479.2	10.1
70°-80°	214.4	4.5
80°-90°	38.4	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°	1534.7	32.2
0°-40°	2438.2	51.2
0°-60°	4030.0	84.6
0°-90°	4762.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4762.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2059	2059	2059	2059	2059	
5°	2057	2056	2048	2037	2031	195
15°	1938	1943	1938	1930	1916	546
25°	1722	1735	1743	1730	1715	788
35°	1385	1404	1468	1476	1470	868
45°	1072	1090	1126	1177	1184	827
55°	751	764	801	845	870	670
65°	440	452	479	513	542	436
75°	176	186	199	209	221	193
85°	28	28	28	26	26	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2059.4	2059.4	2059.4	2059.4	2059.4
2.5°	2065.0	2065.8	2061.0	2048.4	2040.5
5°	2057.1	2056.3	2048.4	2037.3	2031.0
7.5°	2034.1	2035.7	2033.3	2017.5	2008.8
10°	2012.0	2012.8	2006.4	1993.8	1983.5
12.5°	1983.5	1982.7	1974.0	1967.7	1951.1
15°	1938.4	1943.1	1938.4	1929.7	1916.2
17.5°	1894.9	1894.9	1898.0	1883.0	1872.7
20°	1845.8	1848.2	1848.2	1836.3	1824.5
22.5°	1788.9	1796.0	1798.4	1785.7	1771.5
25°	1721.6	1735.1	1743.0	1730.3	1715.3
27.5°	1640.1	1660.7	1684.4	1674.9	1658.3
30°	1549.1	1579.2	1618.8	1610.8	1599.0
32.5°	1462.9	1493.0	1547.5	1544.4	1538.1
35°	1384.6	1403.6	1467.6	1475.6	1470.0
37.5°	1310.2	1327.6	1387.7	1405.9	1401.2
40°	1231.9	1250.9	1298.3	1330.8	1332.3
42.5°	1154.3	1172.5	1211.3	1258.0	1258.0
45°	1072.0	1090.2	1125.8	1177.3	1183.6
47.5°	991.3	1010.3	1045.1	1096.6	1106.9
50°	912.2	929.6	964.4	1014.3	1030.1
52.5°	829.9	848.9	883.0	928.8	951.8
55°	750.8	763.5	800.7	845.0	869.5
57.5°	668.5	680.4	722.3	760.3	785.6
60°	589.4	604.5	636.9	675.7	704.9
62.5°	513.5	529.3	557.0	591.0	624.2
65°	439.9	451.8	478.7	512.7	542.0
67.5°	368.7	379.0	405.9	429.6	460.5
70°	296.7	310.1	329.9	352.9	372.6
72.5°	238.9	244.5	261.1	277.7	298.3
75°	176.4	185.9	199.4	208.9	220.7
77.5°	126.6	132.1	140.0	148.0	159.0
80°	84.7	87.0	94.2	95.7	104.4
82.5°	51.4	53.0	54.6	55.4	58.5
85°	27.7	27.7	27.7	26.1	26.1
87.5°	15.8	15.8	13.5	11.1	7.9
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)