

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: P555397

Luminaire Tested: **FUSL-12-2-LD4-3HI-30-UNV-81-86-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: P555397
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-81-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

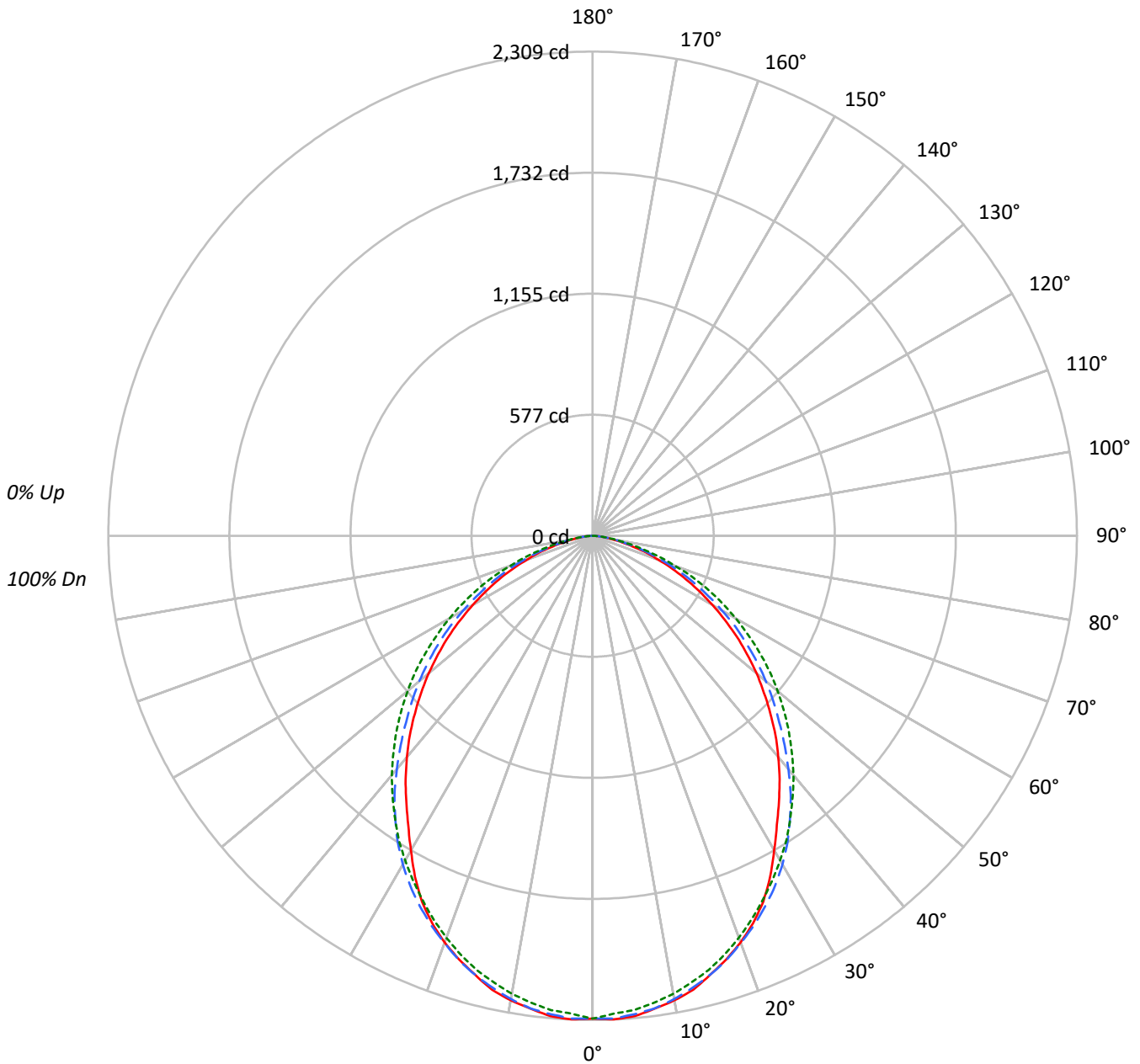
Lumens per Lamp: N/A
Luminaire Lumens: 5324.0 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	12392	12392	12392
5°	12425	12372	12267
10°	12293	12259	12119
15°	12075	12075	11937
20°	11820	11834	11683
25°	11430	11572	11388
30°	10764	11247	11110
35°	10171	10780	10798
40°	9676	10198	10465
45°	9123	9580	10072
50°	8539	9028	9643
55°	7876	8400	9121
60°	7093	7665	8483
65°	6263	6816	7716
70°	5220	5805	6556
75°	4103	4635	5132
80°	2932	3264	3620
85°	1914	1914	1803



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.8	4.1
10°-20°	609.0	11.4
20°-30°	890.0	16.7
30°-40°	1010.2	19.0
40°-50°	975.2	18.3
50°-60°	804.5	15.1
60°-70°	535.7	10.1
70°-80°	239.7	4.5
80°-90°	42.9	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°	1715.8	32.2
0°-40°	2726.0	51.2
0°-60°	4505.7	84.6
0°-90°	5324.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5324.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2302	2302	2302	2302	2302	
5°	2300	2299	2290	2278	2271	218
15°	2167	2172	2167	2157	2142	611
25°	1925	1940	1949	1934	1918	881
35°	1548	1569	1641	1650	1644	970
45°	1199	1219	1259	1316	1323	925
55°	839	854	895	945	972	749
65°	492	505	535	573	606	488
75°	197	208	223	234	247	216
85°	31	31	31	29	29	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2302.5	2302.5	2302.5	2302.5	2302.5
2.5°	2308.7	2309.6	2304.3	2290.1	2281.3
5°	2299.8	2299.0	2290.1	2277.7	2270.6
7.5°	2274.2	2276.0	2273.3	2255.6	2245.9
10°	2249.4	2250.3	2243.2	2229.1	2217.6
12.5°	2217.6	2216.7	2207.0	2199.9	2181.3
15°	2167.2	2172.5	2167.2	2157.4	2142.4
17.5°	2118.5	2118.5	2122.0	2105.2	2093.7
20°	2063.7	2066.3	2066.3	2053.0	2039.8
22.5°	2000.0	2007.9	2010.6	1996.4	1980.5
25°	1924.8	1939.8	1948.7	1934.5	1917.7
27.5°	1833.7	1856.7	1883.2	1872.6	1854.0
30°	1732.0	1765.6	1809.8	1801.0	1787.7
32.5°	1635.5	1669.2	1730.2	1726.6	1719.6
35°	1548.0	1569.2	1640.8	1649.7	1643.5
37.5°	1464.8	1484.3	1551.5	1571.9	1566.5
40°	1377.2	1398.5	1451.6	1487.8	1489.6
42.5°	1290.6	1310.9	1354.3	1406.4	1406.4
45°	1198.6	1218.9	1258.7	1316.2	1323.3
47.5°	1108.3	1129.6	1168.5	1226.0	1237.5
50°	1019.9	1039.4	1078.3	1134.0	1151.7
52.5°	927.9	949.1	987.2	1038.5	1064.1
55°	839.4	853.6	895.2	944.7	972.1
57.5°	747.4	760.7	807.6	850.1	878.4
60°	659.0	675.8	712.1	755.4	788.1
62.5°	574.1	591.8	622.7	660.8	697.9
65°	491.8	505.1	535.2	573.2	605.9
67.5°	412.2	423.7	453.8	480.3	514.8
70°	331.7	346.7	368.9	394.5	416.6
72.5°	267.1	273.3	291.9	310.5	333.5
75°	197.3	207.9	222.9	233.5	246.8
77.5°	141.5	147.7	156.6	165.4	177.8
80°	94.6	97.3	105.3	107.0	116.8
82.5°	57.5	59.3	61.0	61.9	65.5
85°	31.0	31.0	31.0	29.2	29.2
87.5°	17.7	17.7	15.0	12.4	8.8
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)