

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: P556033

Luminaire Tested: **FUSL-12-2-LD4-3STD-40-UNV-81-84-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: P556033
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-81-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC 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

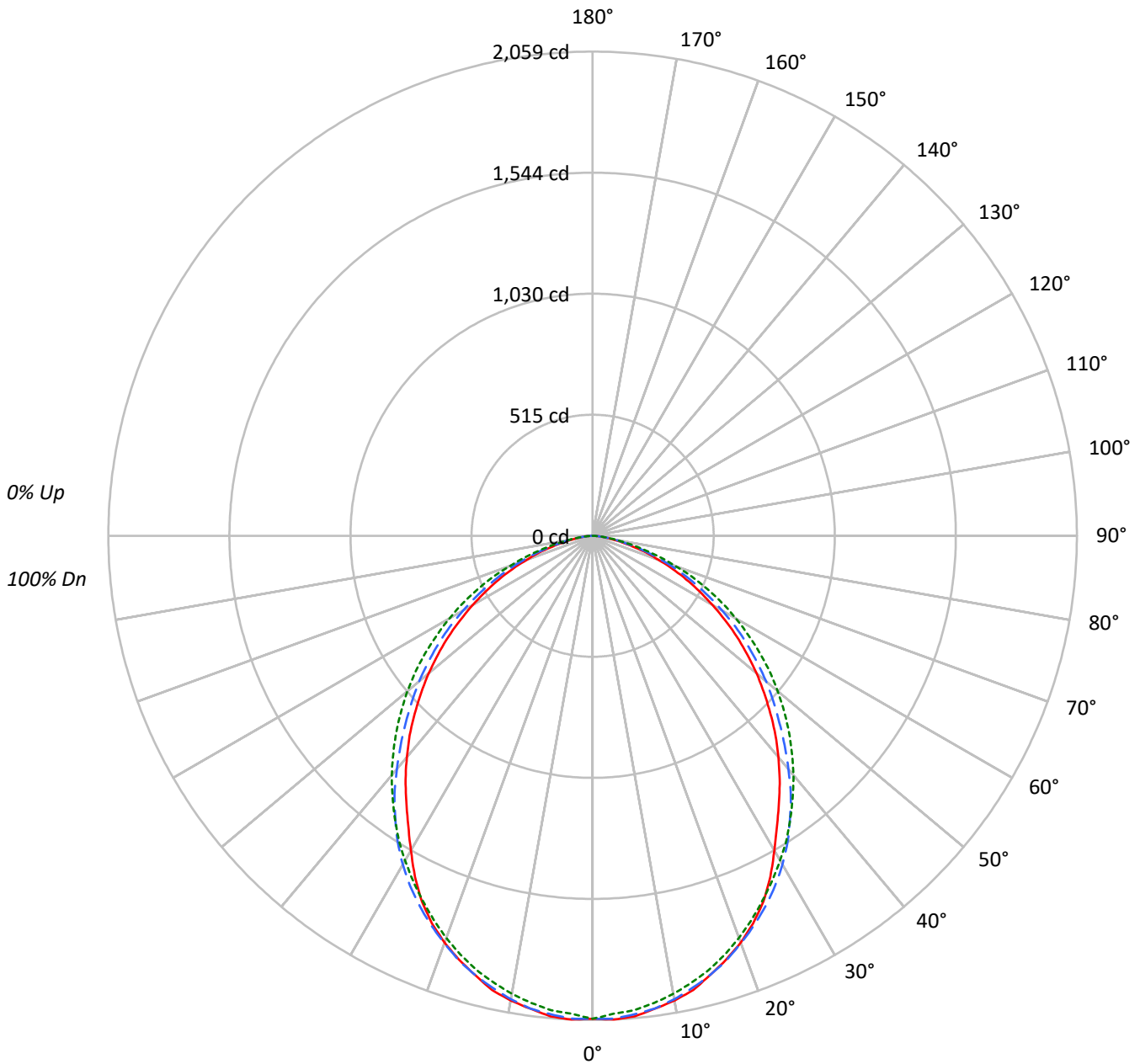
Lumens per Lamp: N/A
Luminaire Lumens: 4749.0 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	11053	11053	11053
5°	11083	11036	10942
10°	10965	10935	10810
15°	10771	10771	10648
20°	10543	10557	10421
25°	10196	10322	10158
30°	9601	10032	9910
35°	9072	9616	9632
40°	8631	9097	9335
45°	8137	8546	8984
50°	7617	8053	8601
55°	7026	7492	8136
60°	6327	6837	7567
65°	5587	6080	6883
70°	4656	5177	5847
75°	3660	4134	4577
80°	2616	2910	3230
85°	1704	1704	1606



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.4	4.1
10°-20°	543.2	11.4
20°-30°	793.9	16.7
30°-40°	901.1	19.0
40°-50°	869.9	18.3
50°-60°	717.6	15.1
60°-70°	477.9	10.1
70°-80°	213.8	4.5
80°-90°	38.2	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°	1530.5	32.2
0°-40°	2431.6	51.2
0°-60°	4019.0	84.6
0°-90°	4749.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4749.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2054	2054	2054	2054	2054	
5°	2052	2051	2043	2032	2025	194
15°	1933	1938	1933	1924	1911	545
25°	1717	1730	1738	1726	1711	786
35°	1381	1400	1464	1472	1466	865
45°	1069	1087	1123	1174	1180	825
55°	749	761	798	843	867	668
65°	439	450	477	511	540	435
75°	176	185	199	208	220	192
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°	2053.8	2053.8	2053.8	2053.8	2053.8
2.5°	2059.3	2060.1	2055.4	2042.8	2034.9
5°	2051.5	2050.7	2042.8	2031.7	2025.4
7.5°	2028.6	2030.1	2027.8	2012.0	2003.3
10°	2006.5	2007.3	2001.0	1988.3	1978.1
12.5°	1978.1	1977.3	1968.6	1962.3	1945.7
15°	1933.1	1937.8	1933.1	1924.4	1911.0
17.5°	1889.7	1889.7	1892.9	1877.9	1867.6
20°	1840.8	1843.2	1843.2	1831.3	1819.5
22.5°	1784.0	1791.1	1793.4	1780.8	1766.6
25°	1716.9	1730.3	1738.2	1725.6	1710.6
27.5°	1635.6	1656.2	1679.8	1670.4	1653.8
30°	1544.9	1574.9	1614.3	1606.4	1594.6
32.5°	1458.9	1488.9	1543.3	1540.2	1533.9
35°	1380.8	1399.7	1463.6	1471.5	1466.0
37.5°	1306.6	1324.0	1383.9	1402.1	1397.4
40°	1228.5	1247.4	1294.8	1327.1	1328.7
42.5°	1151.2	1169.3	1208.0	1254.5	1254.5
45°	1069.1	1087.3	1122.8	1174.1	1180.4
47.5°	988.6	1007.6	1042.3	1093.6	1103.8
50°	909.7	927.1	961.8	1011.5	1027.3
52.5°	827.7	846.6	880.5	926.3	949.2
55°	748.8	761.4	798.5	842.7	867.1
57.5°	666.7	678.6	720.4	758.2	783.5
60°	587.8	602.8	635.2	673.8	703.0
62.5°	512.1	527.9	555.5	589.4	622.5
65°	438.7	450.5	477.4	511.3	540.5
67.5°	367.7	377.9	404.8	428.4	459.2
70°	295.9	309.3	329.0	351.9	371.6
72.5°	238.3	243.8	260.4	276.9	297.5
75°	176.0	185.4	198.8	208.3	220.1
77.5°	126.2	131.8	139.7	147.5	158.6
80°	84.4	86.8	93.9	95.5	104.2
82.5°	51.3	52.9	54.4	55.2	58.4
85°	27.6	27.6	27.6	26.0	26.0
87.5°	15.8	15.8	13.4	11.0	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)