

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: P556097

Luminaire Tested: **FUSL-12-2-LD4-3STD-50-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: P556097
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-50-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 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

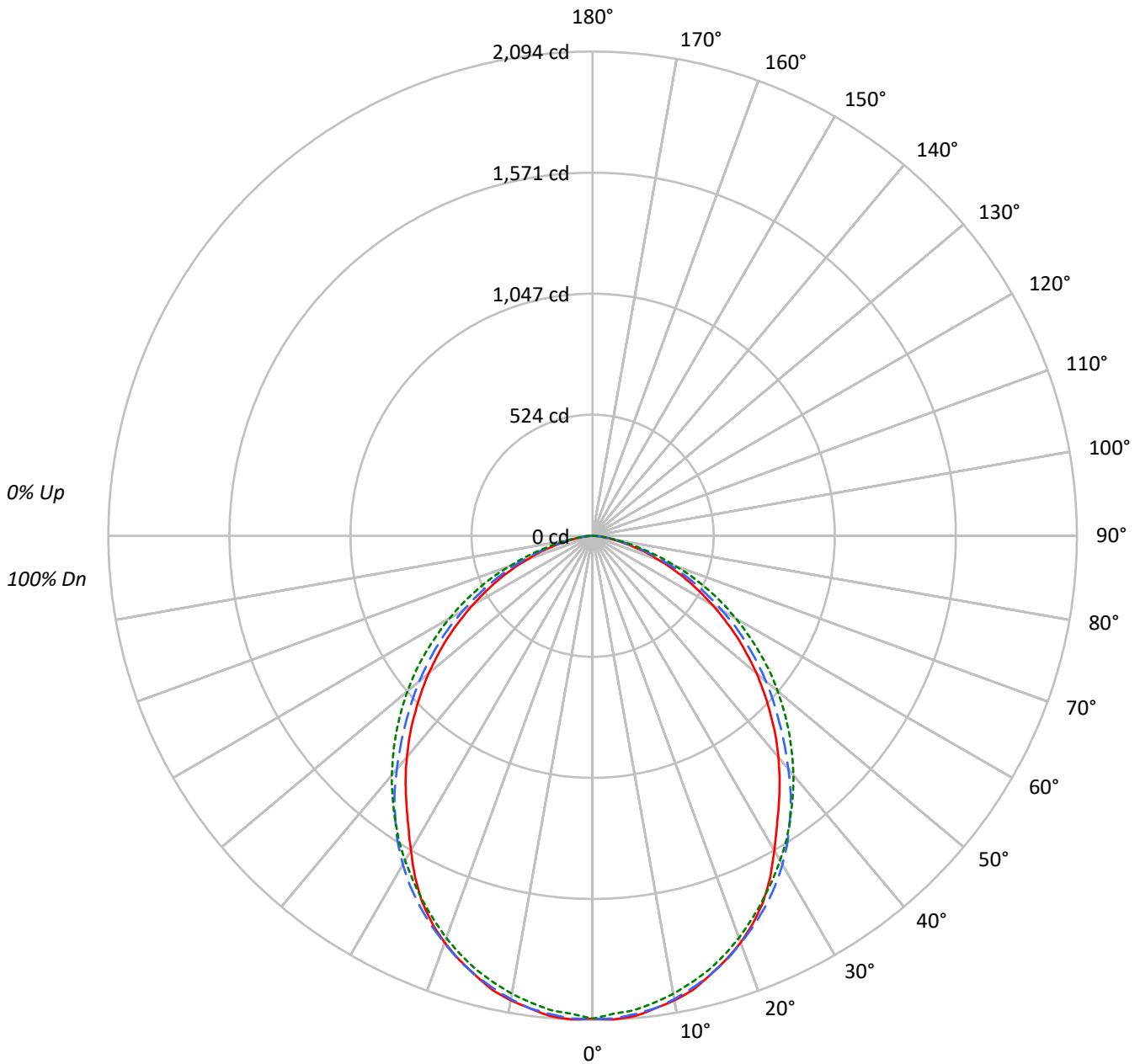
Lumens per Lamp: N/A
Luminaire Lumens: 4829.0 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	11240	11240	11240
5°	11270	11222	11126
10°	11150	11120	10992
15°	10953	10953	10827
20°	10720	10734	10596
25°	10367	10496	10329
30°	9762	10201	10077
35°	9225	9778	9794
40°	8776	9250	9492
45°	8274	8690	9136
50°	7746	8189	8746
55°	7144	7618	8273
60°	6434	6952	7695
65°	5681	6181	6999
70°	4735	5265	5947
75°	3720	4205	4654
80°	2659	2960	3282
85°	1735	1735	1636



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.6	4.1
10°-20°	552.4	11.4
20°-30°	807.2	16.7
30°-40°	916.3	19.0
40°-50°	884.5	18.3
50°-60°	729.7	15.1
60°-70°	485.9	10.1
70°-80°	217.4	4.5
80°-90°	38.9	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°	1556.2	32.2
0°-40°	2472.5	51.2
0°-60°	4086.8	84.6
0°-90°	4829.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4829.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2088	2088	2088	2088	2088	
5°	2086	2085	2077	2066	2060	197
15°	1966	1970	1966	1957	1943	554
25°	1746	1760	1768	1755	1739	799
35°	1404	1423	1488	1496	1491	880
45°	1087	1106	1142	1194	1200	839
55°	761	774	812	857	882	680
65°	446	458	485	520	550	442
75°	179	188	202	212	224	196
85°	28	28	28	26	26	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2088.4	2088.4	2088.4	2088.4	2088.4
2.5°	2094.0	2094.8	2090.0	2077.2	2069.2
5°	2086.0	2085.2	2077.2	2066.0	2059.5
7.5°	2062.7	2064.3	2061.9	2045.9	2037.1
10°	2040.3	2041.1	2034.7	2021.8	2011.4
12.5°	2011.4	2010.6	2001.8	1995.3	1978.5
15°	1965.7	1970.5	1965.7	1956.8	1943.2
17.5°	1921.5	1921.5	1924.7	1909.5	1899.1
20°	1871.8	1874.2	1874.2	1862.2	1850.1
22.5°	1814.0	1821.2	1823.7	1810.8	1796.4
25°	1745.8	1759.5	1767.5	1754.7	1739.4
27.5°	1663.2	1684.1	1708.1	1698.5	1681.6
30°	1570.9	1601.4	1641.5	1633.5	1621.5
32.5°	1483.5	1514.0	1569.3	1566.1	1559.7
35°	1404.0	1423.3	1488.3	1496.3	1490.7
37.5°	1328.6	1346.3	1407.3	1425.7	1420.9
40°	1249.2	1268.5	1316.6	1349.5	1351.1
42.5°	1170.6	1189.0	1228.3	1275.7	1275.7
45°	1087.1	1105.6	1141.7	1193.8	1200.3
47.5°	1005.3	1024.6	1059.9	1112.0	1122.4
50°	925.1	942.7	978.0	1028.6	1044.6
52.5°	841.6	860.9	895.4	941.9	965.2
55°	761.4	774.2	811.9	856.9	881.7
57.5°	678.0	690.0	732.5	771.0	796.7
60°	597.7	613.0	645.9	685.2	714.9
62.5°	520.7	536.7	564.8	599.3	633.0
65°	446.1	458.1	485.4	519.9	549.6
67.5°	373.9	384.3	411.6	435.7	466.9
70°	300.9	314.5	334.6	357.8	377.9
72.5°	242.3	247.9	264.8	281.6	302.5
75°	178.9	188.5	202.2	211.8	223.8
77.5°	128.4	134.0	142.0	150.0	161.3
80°	85.8	88.3	95.5	97.1	105.9
82.5°	52.2	53.8	55.4	56.2	59.4
85°	28.1	28.1	28.1	26.5	26.5
87.5°	16.0	16.0	13.6	11.2	8.0
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)