

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: P556085

Luminaire Tested: **FUSL-12-2-LD4-3STD-50-UNV-80-86-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: P556085
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-80-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

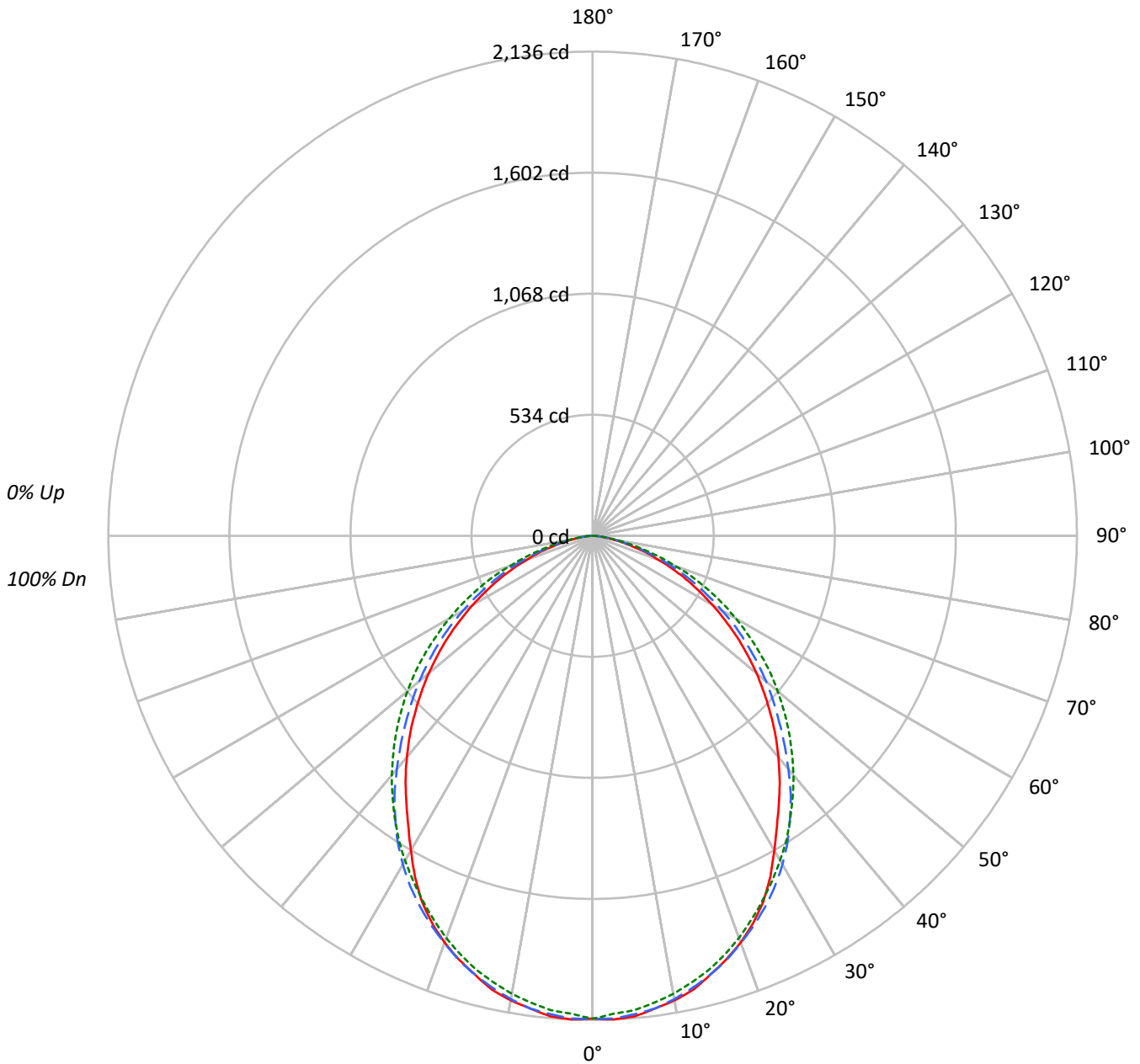
Lumens per Lamp: N/A
Luminaire Lumens: 4926.0 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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					20					
RC	80					70					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54					54			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47					47			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34					34			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11466	11466	11466
5°	11496	11447	11350
10°	11374	11343	11213
15°	11172	11172	11044
20°	10936	10950	10809
25°	10576	10707	10537
30°	9959	10406	10279
35°	9410	9975	9991
40°	8953	9435	9683
45°	8441	8864	9319
50°	7901	8354	8922
55°	7288	7771	8440
60°	6563	7091	7849
65°	5794	6305	7139
70°	4829	5371	6066
75°	3795	4288	4747
80°	2715	3019	3347
85°	1766	1766	1667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.6	4.1
10°-20°	563.5	11.4
20°-30°	823.4	16.7
30°-40°	934.7	19.0
40°-50°	902.3	18.3
50°-60°	744.3	15.1
60°-70°	495.7	10.1
70°-80°	221.8	4.5
80°-90°	39.7	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°	1587.5	32.2
0°-40°	2522.2	51.2
0°-60°	4168.8	84.6
0°-90°	4926.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4926.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2130	2130	2130	2130	2130	
5°	2128	2127	2119	2108	2101	201
15°	2005	2010	2005	1996	1982	565
25°	1781	1795	1803	1790	1774	816
35°	1432	1452	1518	1526	1521	897
45°	1109	1128	1165	1218	1224	856
55°	777	790	828	874	900	693
65°	455	467	495	530	561	451
75°	182	192	206	216	228	200
85°	29	29	29	27	27	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2130.4	2130.4	2130.4	2130.4	2130.4
2.5°	2136.1	2136.9	2132.0	2118.9	2110.7
5°	2127.9	2127.1	2118.9	2107.5	2100.9
7.5°	2104.2	2105.8	2103.4	2087.0	2078.0
10°	2081.3	2082.1	2075.5	2062.4	2051.8
12.5°	2051.8	2051.0	2042.0	2035.4	2018.2
15°	2005.1	2010.1	2005.1	1996.1	1982.2
17.5°	1960.1	1960.1	1963.4	1947.9	1937.2
20°	1909.4	1911.8	1911.8	1899.6	1887.3
22.5°	1850.5	1857.8	1860.3	1847.2	1832.5
25°	1780.9	1794.8	1803.0	1789.9	1774.4
27.5°	1696.6	1717.9	1742.4	1732.6	1715.4
30°	1602.5	1633.6	1674.5	1666.3	1654.0
32.5°	1513.3	1544.4	1600.8	1597.6	1591.0
35°	1432.2	1451.9	1518.2	1526.4	1520.6
37.5°	1355.3	1373.3	1435.5	1454.3	1449.4
40°	1274.3	1293.9	1343.0	1376.6	1378.2
42.5°	1194.1	1212.9	1253.0	1301.3	1301.3
45°	1109.0	1127.8	1164.6	1217.8	1224.4
47.5°	1025.5	1045.1	1081.1	1134.3	1145.0
50°	943.6	961.7	997.7	1049.2	1065.6
52.5°	858.5	878.2	913.4	960.8	984.6
55°	776.7	789.8	828.2	874.1	899.5
57.5°	691.6	703.8	747.2	786.5	812.7
60°	609.7	625.3	658.8	698.9	729.2
62.5°	531.2	547.5	576.2	611.4	645.7
65°	455.0	467.3	495.1	530.3	560.6
67.5°	381.4	392.0	419.9	444.4	476.3
70°	306.9	320.8	341.3	365.0	385.5
72.5°	247.2	252.9	270.1	287.3	308.5
75°	182.5	192.3	206.2	216.1	228.3
77.5°	130.9	136.7	144.9	153.0	164.5
80°	87.6	90.0	97.4	99.0	108.0
82.5°	53.2	54.8	56.5	57.3	60.6
85°	28.6	28.6	28.6	27.0	27.0
87.5°	16.4	16.4	13.9	11.5	8.2
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)