

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: P556075

Luminaire Tested: **FUSL-12-2-LD4-3STD-40-UNV-93-94-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: P556075
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-93-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

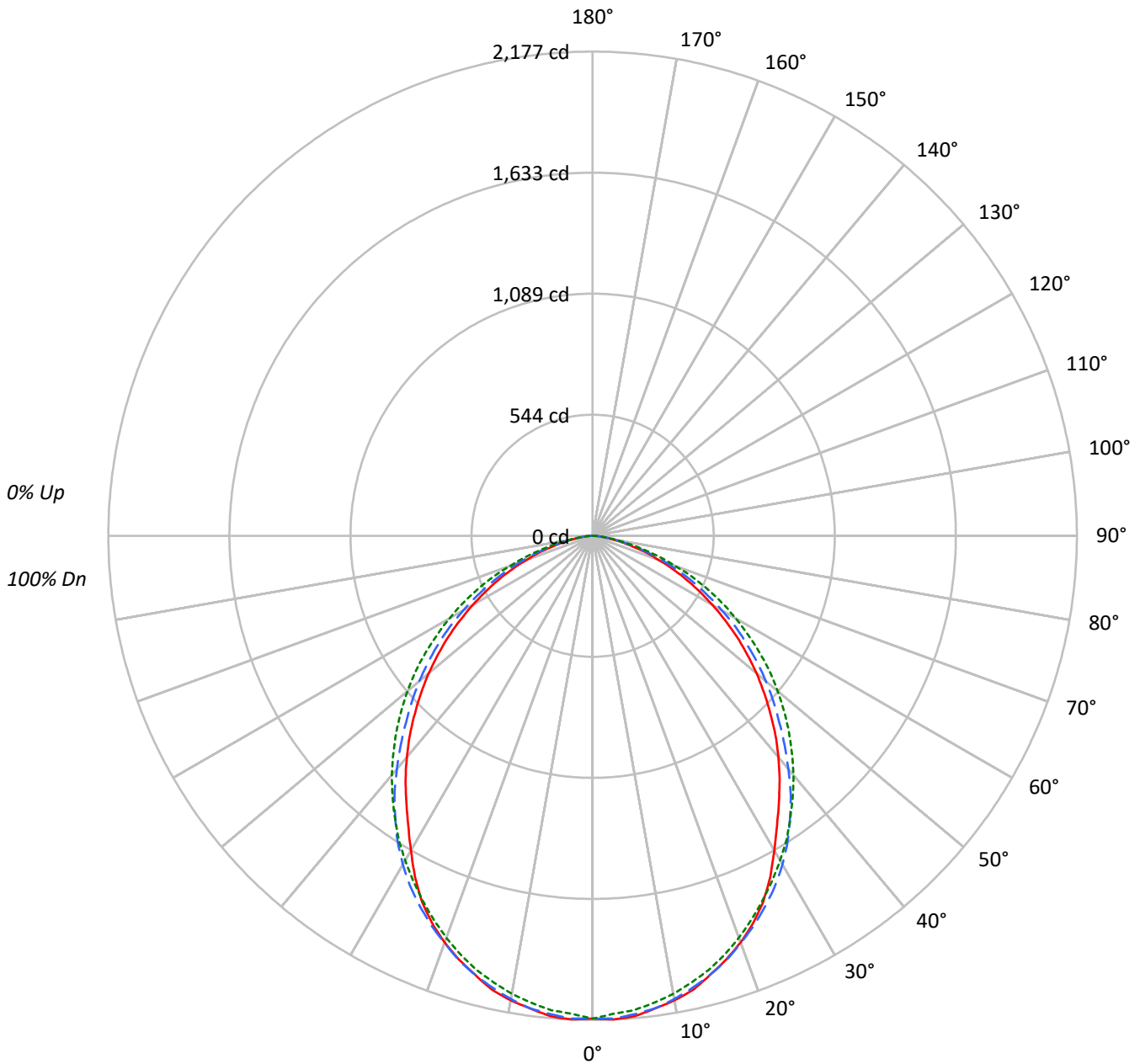
Lumens per Lamp: N/A
Luminaire Lumens: 5020.0 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
Input Voltage (V): NR
Input Current (A_{in}): 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				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	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°	11684	11684	11684
5°	11715	11666	11567
10°	11591	11559	11427
15°	11385	11385	11256
20°	11144	11159	11015
25°	10777	10911	10738
30°	10149	10605	10475
35°	9590	10165	10182
40°	9124	9616	9868
45°	8601	9033	9497
50°	8052	8513	9092
55°	7427	7920	8601
60°	6689	7227	7999
65°	5905	6426	7275
70°	4922	5473	6181
75°	3868	4371	4839
80°	2765	3078	3412
85°	1803	1803	1698



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.4	4.1
10°-20°	574.2	11.4
20°-30°	839.2	16.7
30°-40°	952.5	19.0
40°-50°	919.5	18.3
50°-60°	758.6	15.1
60°-70°	505.1	10.1
70°-80°	226.0	4.5
80°-90°	40.4	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°	1617.8	32.2
0°-40°	2570.3	51.2
0°-60°	4248.4	84.6
0°-90°	5020.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5020.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2171	2171	2171	2171	2171	
5°	2168	2168	2159	2148	2141	205
15°	2043	2048	2043	2034	2020	576
25°	1815	1829	1837	1824	1808	831
35°	1460	1480	1547	1556	1550	915
45°	1130	1149	1187	1241	1248	872
55°	792	805	844	891	917	706
65°	464	476	505	540	571	460
75°	186	196	210	220	233	203
85°	29	29	29	28	28	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2171.0	2171.0	2171.0	2171.0	2171.0
2.5°	2176.9	2177.7	2172.7	2159.3	2151.0
5°	2168.5	2167.7	2159.3	2147.7	2141.0
7.5°	2144.3	2146.0	2143.5	2126.8	2117.6
10°	2121.0	2121.8	2115.1	2101.8	2091.0
12.5°	2091.0	2090.1	2080.9	2074.3	2056.8
15°	2043.4	2048.4	2043.4	2034.2	2020.1
17.5°	1997.5	1997.5	2000.9	1985.0	1974.2
20°	1945.8	1948.3	1948.3	1935.8	1923.3
22.5°	1885.8	1893.3	1895.8	1882.4	1867.4
25°	1814.9	1829.1	1837.4	1824.1	1808.2
27.5°	1729.0	1750.7	1775.7	1765.7	1748.2
30°	1633.1	1664.8	1706.5	1698.1	1685.6
32.5°	1542.2	1573.8	1631.4	1628.1	1621.4
35°	1459.6	1479.6	1547.2	1555.5	1549.7
37.5°	1381.2	1399.5	1462.9	1482.1	1477.1
40°	1298.6	1318.6	1368.7	1402.9	1404.5
42.5°	1216.9	1236.1	1276.9	1326.1	1326.1
45°	1130.1	1149.3	1186.8	1241.1	1247.7
47.5°	1045.1	1065.1	1101.8	1156.0	1166.8
50°	961.7	980.0	1016.7	1069.2	1085.9
52.5°	874.9	894.9	930.8	979.2	1003.4
55°	791.5	804.9	844.1	890.8	916.6
57.5°	704.8	717.3	761.5	801.5	828.2
60°	621.4	637.2	671.4	712.3	743.1
62.5°	541.3	558.0	587.2	623.0	658.1
65°	463.7	476.2	504.6	540.5	571.3
67.5°	388.7	399.5	427.9	452.9	485.4
70°	312.8	326.9	347.8	372.0	392.8
72.5°	251.9	257.7	275.2	292.7	314.4
75°	186.0	196.0	210.2	220.2	232.7
77.5°	133.4	139.3	147.6	156.0	167.6
80°	89.2	91.7	99.3	100.9	110.1
82.5°	54.2	55.9	57.5	58.4	61.7
85°	29.2	29.2	29.2	27.5	27.5
87.5°	16.7	16.7	14.2	11.7	8.3
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)