

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: P555598

Luminaire Tested: **FUSL-12-2-LD4-3HI-50-UNV-81-97-EDD-90**

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: P555598
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-50-UNV-81-97-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .375
CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT
LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

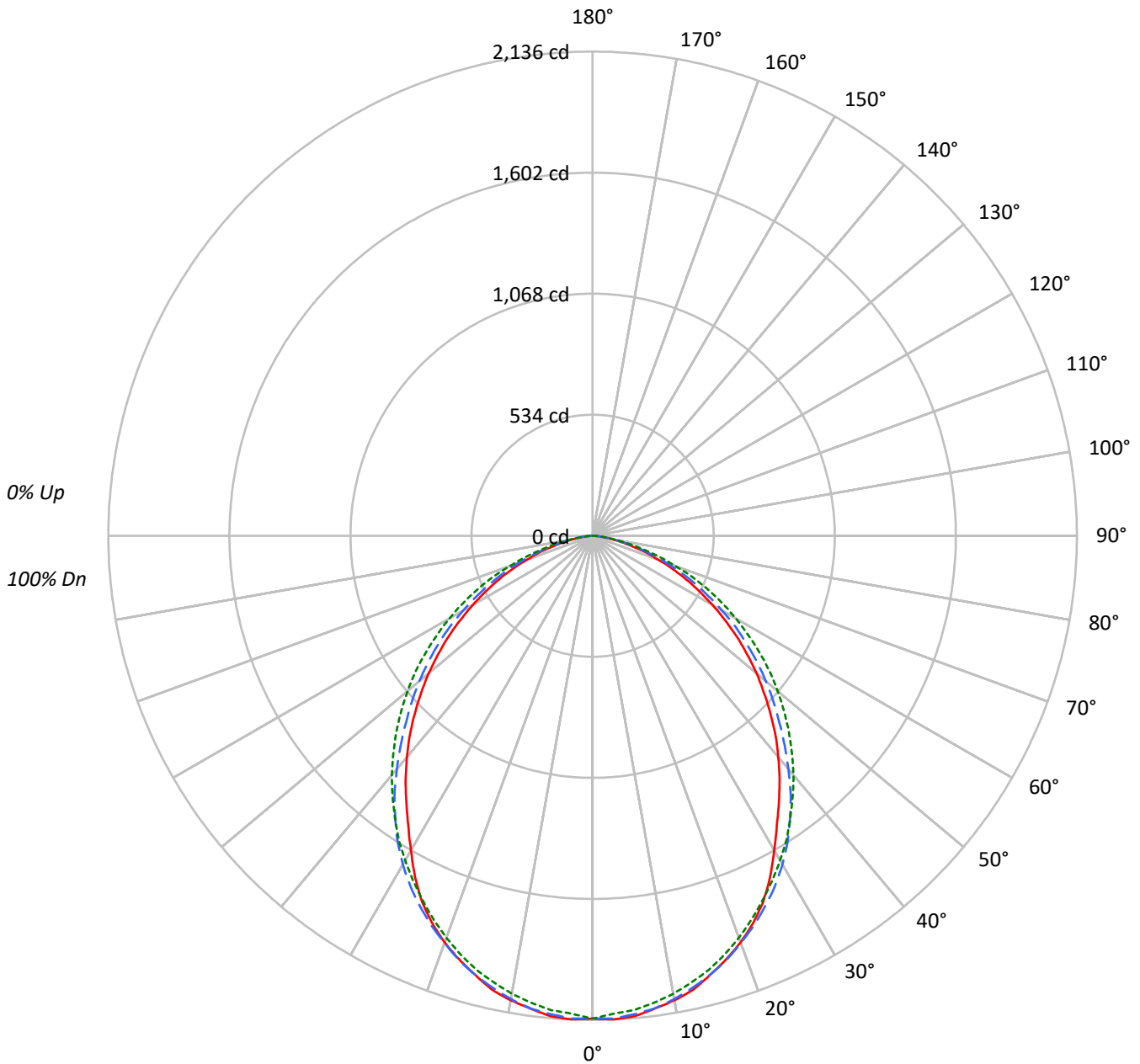
Lumens per Lamp: N/A
Luminaire Lumens: 4925.0 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
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									
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°	11463	11463	11463
5°	11494	11445	11348
10°	11372	11340	11211
15°	11170	11170	11042
20°	10934	10948	10807
25°	10573	10704	10535
30°	9957	10404	10277
35°	9408	9973	9989
40°	8951	9434	9681
45°	8439	8863	9317
50°	7900	8352	8920
55°	7286	7770	8438
60°	6562	7090	7848
65°	5794	6304	7138
70°	4828	5369	6065
75°	3795	4288	4747
80°	2715	3019	3347
85°	1766	1766	1667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.5	4.1
10°-20°	563.4	11.4
20°-30°	823.3	16.7
30°-40°	934.5	19.0
40°-50°	902.1	18.3
50°-60°	744.2	15.1
60°-70°	495.6	10.1
70°-80°	221.7	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°	1587.2	32.2
0°-40°	2521.7	51.2
0°-60°	4168.0	84.6
0°-90°	4925.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4925.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2130	2130	2130	2130	2130	
5°	2128	2127	2118	2107	2100	201
15°	2005	2010	2005	1996	1982	565
25°	1780	1794	1803	1790	1774	815
35°	1432	1452	1518	1526	1520	897
45°	1109	1128	1164	1218	1224	855
55°	776	790	828	874	899	693
65°	455	467	495	530	560	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°	2129.9	2129.9	2129.9	2129.9	2129.9
2.5°	2135.7	2136.5	2131.6	2118.5	2110.3
5°	2127.5	2126.7	2118.5	2107.0	2100.5
7.5°	2103.8	2105.4	2102.9	2086.6	2077.6
10°	2080.8	2081.7	2075.1	2062.0	2051.4
12.5°	2051.4	2050.6	2041.6	2035.0	2017.8
15°	2004.7	2009.7	2004.7	1995.7	1981.8
17.5°	1959.7	1959.7	1963.0	1947.5	1936.8
20°	1909.0	1911.5	1911.5	1899.2	1886.9
22.5°	1850.1	1857.5	1859.9	1846.8	1832.1
25°	1780.5	1794.4	1802.6	1789.5	1774.0
27.5°	1696.3	1717.5	1742.1	1732.3	1715.1
30°	1602.2	1633.3	1674.2	1666.0	1653.7
32.5°	1513.0	1544.1	1600.5	1597.2	1590.7
35°	1432.0	1451.6	1517.9	1526.1	1520.3
37.5°	1355.0	1373.0	1435.2	1454.1	1449.1
40°	1274.0	1293.7	1342.8	1376.3	1378.0
42.5°	1193.8	1212.7	1252.8	1301.0	1301.0
45°	1108.7	1127.6	1164.4	1217.6	1224.1
47.5°	1025.3	1044.9	1080.9	1134.1	1144.7
50°	943.5	961.5	997.5	1049.0	1065.4
52.5°	858.4	878.0	913.2	960.6	984.4
55°	776.5	789.6	828.1	873.9	899.3
57.5°	691.4	703.7	747.1	786.3	812.5
60°	609.6	625.2	658.7	698.8	729.1
62.5°	531.1	547.4	576.1	611.2	645.6
65°	455.0	467.2	495.0	530.2	560.5
67.5°	381.3	391.9	419.8	444.3	476.2
70°	306.8	320.8	341.2	364.9	385.4
72.5°	247.1	252.8	270.0	287.2	308.5
75°	182.5	192.3	206.2	216.0	228.3
77.5°	130.9	136.6	144.8	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)