

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: P555424

Luminaire Tested: **FUSL-12-2-LD4-3HI-30-UNV-93-84-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: P555424
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-30-UNV-93-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

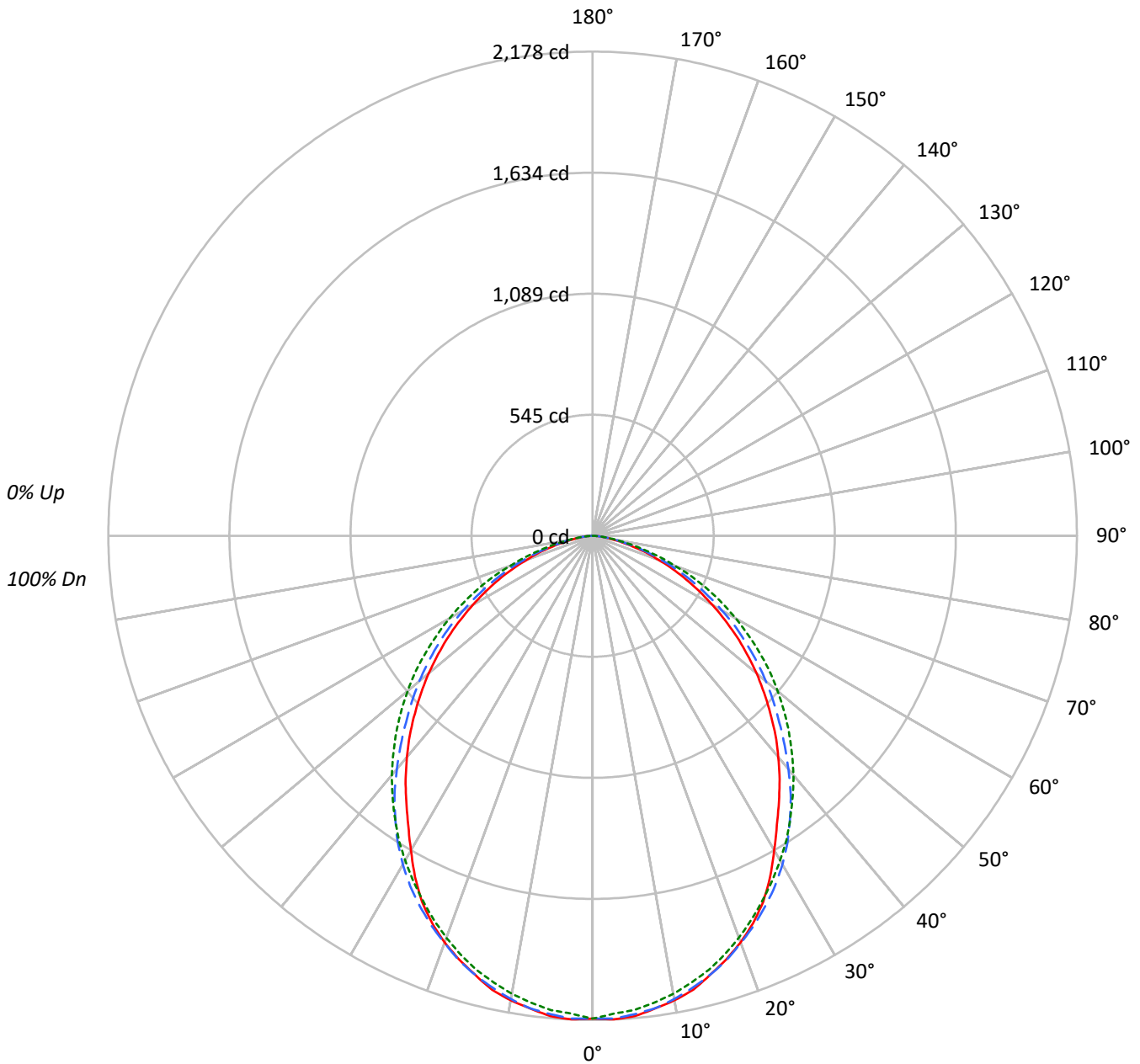
Lumens per Lamp: N/A
Luminaire Lumens: 5022.0 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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					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°	11689	11689	11689
5°	11720	11671	11571
10°	11596	11564	11432
15°	11390	11390	11260
20°	11149	11163	11020
25°	10782	10915	10742
30°	10153	10609	10480
35°	9594	10169	10186
40°	9127	9620	9872
45°	8605	9037	9500
50°	8055	8516	9096
55°	7430	7923	8604
60°	6691	7230	8002
65°	5908	6429	7278
70°	4924	5474	6184
75°	3870	4373	4841
80°	2768	3078	3412
85°	1803	1803	1698



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.5	4.1
10°-20°	574.5	11.4
20°-30°	839.5	16.7
30°-40°	952.9	19.0
40°-50°	919.9	18.3
50°-60°	758.9	15.1
60°-70°	505.3	10.1
70°-80°	226.1	4.5
80°-90°	40.5	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°	1618.4	32.2
0°-40°	2571.4	51.2
0°-60°	4250.1	84.6
0°-90°	5022.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5022.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2172	2172	2172	2172	2172	
5°	2169	2168	2160	2148	2142	205
15°	2044	2049	2044	2035	2021	576
25°	1816	1830	1838	1825	1809	831
35°	1460	1480	1548	1556	1550	915
45°	1131	1150	1187	1242	1248	872
55°	792	805	844	891	917	707
65°	464	476	505	541	572	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°	2171.9	2171.9	2171.9	2171.9	2171.9
2.5°	2177.7	2178.6	2173.6	2160.2	2151.9
5°	2169.4	2168.5	2160.2	2148.5	2141.8
7.5°	2145.2	2146.9	2144.4	2127.7	2118.5
10°	2121.8	2122.7	2116.0	2102.6	2091.8
12.5°	2091.8	2091.0	2081.8	2075.1	2057.6
15°	2044.2	2049.2	2044.2	2035.0	2020.9
17.5°	1998.3	1998.3	2001.7	1985.8	1975.0
20°	1946.6	1949.1	1949.1	1936.6	1924.1
22.5°	1886.5	1894.0	1896.5	1883.2	1868.2
25°	1815.6	1829.8	1838.1	1824.8	1808.9
27.5°	1729.7	1751.4	1776.4	1766.4	1748.9
30°	1633.7	1665.4	1707.1	1698.8	1686.3
32.5°	1542.8	1574.5	1632.0	1628.7	1622.0
35°	1460.2	1480.2	1547.8	1556.1	1550.3
37.5°	1381.7	1400.1	1463.5	1482.7	1477.7
40°	1299.1	1319.2	1369.2	1403.4	1405.1
42.5°	1217.4	1236.5	1277.4	1326.7	1326.7
45°	1130.6	1149.8	1187.3	1241.6	1248.2
47.5°	1045.5	1065.5	1102.2	1156.4	1167.3
50°	962.0	980.4	1017.1	1069.7	1086.4
52.5°	875.3	895.3	931.2	979.6	1003.8
55°	791.8	805.2	844.4	891.1	917.0
57.5°	705.0	717.6	761.8	801.8	828.5
60°	621.6	637.5	671.7	712.6	743.4
62.5°	541.5	558.2	587.4	623.3	658.3
65°	463.9	476.4	504.8	540.7	571.5
67.5°	388.8	399.7	428.0	453.1	485.6
70°	312.9	327.1	347.9	372.1	393.0
72.5°	252.0	257.8	275.3	292.9	314.6
75°	186.1	196.1	210.3	220.3	232.8
77.5°	133.5	139.3	147.7	156.0	167.7
80°	89.3	91.8	99.3	101.0	110.1
82.5°	54.2	55.9	57.6	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)