

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: P555535

Luminaire Tested: **FUSL-12-2-LD4-3HI-40-UNV-81-97-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: P555535
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-40-UNV-81-97-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .375
CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT
LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

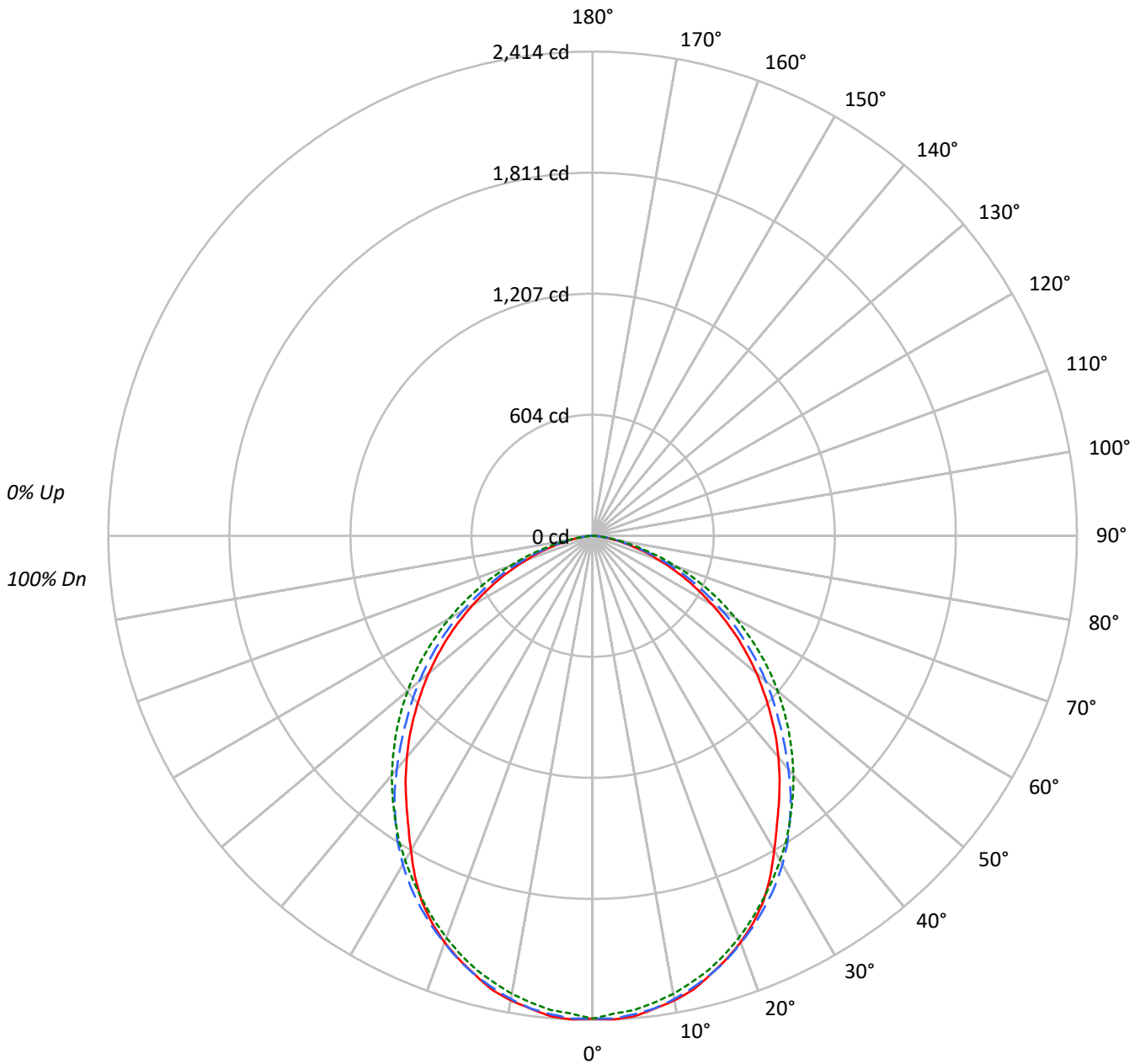
Lumens per Lamp: N/A
Luminaire Lumens: 5566.0 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	12955	12955	12955
5°	12990	12935	12825
10°	12852	12816	12670
15°	12624	12624	12480
20°	12357	12372	12214
25°	11950	12098	11906
30°	11253	11759	11614
35°	10632	11270	11289
40°	10116	10661	10941
45°	9538	10016	10529
50°	8927	9439	10081
55°	8235	8782	9536
60°	7415	8013	8869
65°	6548	7125	8067
70°	5457	6068	6855
75°	4288	4845	5365
80°	3065	3409	3784
85°	2001	2001	1883



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.6	4.1
10°-20°	636.7	11.4
20°-30°	930.4	16.7
30°-40°	1056.1	19.0
40°-50°	1019.5	18.3
50°-60°	841.0	15.1
60°-70°	560.1	10.1
70°-80°	250.6	4.5
80°-90°	44.8	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°	1793.8	32.2
0°-40°	2849.9	51.2
0°-60°	4710.5	84.6
0°-90°	5566.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5566.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2407	2407	2407	2407	2407	
5°	2404	2404	2394	2381	2374	228
15°	2266	2271	2266	2256	2240	639
25°	2012	2028	2037	2022	2005	922
35°	1618	1640	1715	1725	1718	1014
45°	1253	1274	1316	1376	1383	967
55°	878	892	936	988	1016	783
65°	514	528	560	599	634	510
75°	206	217	233	244	258	226
85°	32	32	32	30	30	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2407.2	2407.2	2407.2	2407.2	2407.2
2.5°	2413.6	2414.5	2409.0	2394.2	2385.0
5°	2404.4	2403.5	2394.2	2381.3	2373.9
7.5°	2377.6	2379.4	2376.6	2358.1	2348.0
10°	2351.7	2352.6	2345.2	2330.4	2318.4
12.5°	2318.4	2317.4	2307.3	2299.9	2280.5
15°	2265.7	2271.2	2265.7	2255.5	2239.8
17.5°	2214.8	2214.8	2218.5	2200.9	2188.9
20°	2157.5	2160.2	2160.2	2146.4	2132.5
22.5°	2090.9	2099.2	2102.0	2087.2	2070.5
25°	2012.3	2028.0	2037.2	2022.5	2004.9
27.5°	1917.0	1941.1	1968.8	1957.7	1938.3
30°	1810.7	1845.8	1892.1	1882.8	1868.9
32.5°	1709.9	1745.0	1808.8	1805.1	1797.7
35°	1618.3	1640.5	1715.4	1724.7	1718.2
37.5°	1531.4	1551.7	1622.0	1643.3	1637.8
40°	1439.9	1462.0	1517.5	1555.4	1557.3
42.5°	1349.2	1370.5	1415.8	1470.4	1470.4
45°	1253.1	1274.3	1315.9	1376.0	1383.4
47.5°	1158.7	1180.9	1221.6	1281.7	1293.7
50°	1066.2	1086.6	1127.3	1185.5	1204.0
52.5°	970.1	992.3	1032.0	1085.7	1112.5
55°	877.6	892.4	935.9	987.6	1016.3
57.5°	781.4	795.3	844.3	888.7	918.3
60°	688.9	706.5	744.4	789.7	824.0
62.5°	600.2	618.7	651.0	690.8	729.6
65°	514.2	528.0	559.5	599.2	633.5
67.5°	430.9	443.0	474.4	502.1	538.2
70°	346.8	362.5	385.6	412.4	435.6
72.5°	279.3	285.8	305.2	324.6	348.6
75°	206.2	217.3	233.0	244.1	258.0
77.5°	148.0	154.4	163.7	172.9	185.9
80°	98.9	101.7	110.0	111.9	122.1
82.5°	60.1	62.0	63.8	64.7	68.4
85°	32.4	32.4	32.4	30.5	30.5
87.5°	18.5	18.5	15.7	12.9	9.2
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)