

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: P555534

Luminaire Tested: **FUSL-12-2-LD4-3HI-40-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: P555534
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-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .375
CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT
LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

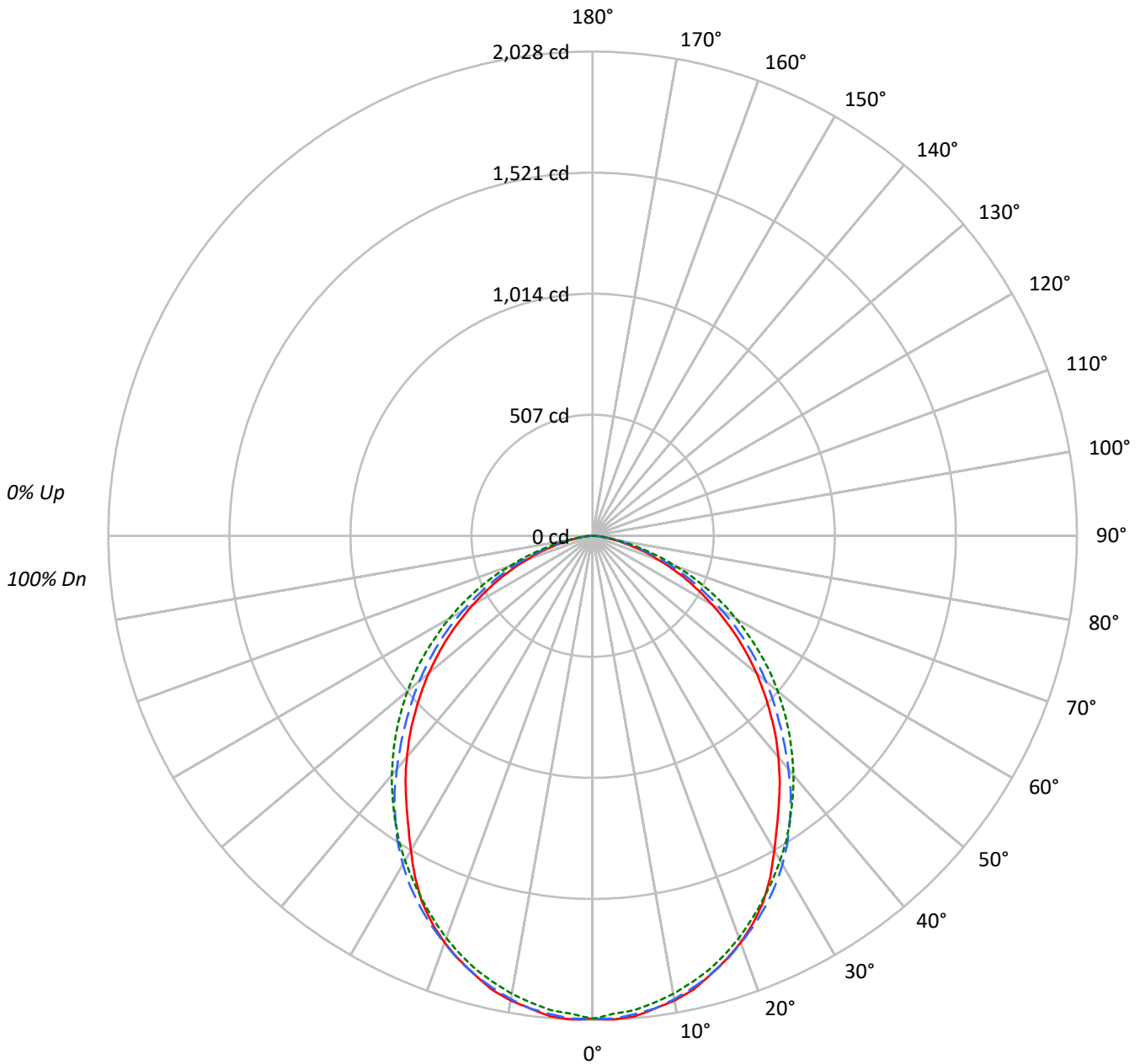
Lumens per Lamp: N/A
Luminaire Lumens: 4677.0 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	10886	10886	10886
5°	10915	10869	10776
10°	10799	10769	10646
15°	10608	10608	10486
20°	10383	10396	10263
25°	10041	10166	10004
30°	9455	9881	9759
35°	8935	9470	9486
40°	8500	8959	9194
45°	8014	8417	8848
50°	7501	7931	8471
55°	6919	7379	8013
60°	6231	6733	7453
65°	5501	5987	6779
70°	4585	5098	5759
75°	3604	4072	4508
80°	2576	2867	3180
85°	1680	1680	1581



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.4	4.1
10°-20°	535.0	11.4
20°-30°	781.8	16.7
30°-40°	887.4	19.0
40°-50°	856.7	18.3
50°-60°	706.7	15.1
60°-70°	470.6	10.1
70°-80°	210.6	4.5
80°-90°	37.7	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°	1507.3	32.2
0°-40°	2394.7	51.2
0°-60°	3958.1	84.6
0°-90°	4677.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4677.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2023	2023	2023	2023	2023	
5°	2020	2020	2012	2001	1995	191
15°	1904	1908	1904	1895	1882	537
25°	1691	1704	1712	1699	1685	774
35°	1360	1378	1441	1449	1444	852
45°	1053	1071	1106	1156	1162	812
55°	737	750	786	830	854	658
65°	432	444	470	504	532	428
75°	173	183	196	205	217	189
85°	27	27	27	26	26	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2022.7	2022.7	2022.7	2022.7	2022.7
2.5°	2028.1	2028.9	2024.2	2011.8	2004.0
5°	2020.4	2019.6	2011.8	2000.9	1994.7
7.5°	1997.8	1999.4	1997.0	1981.5	1973.0
10°	1976.1	1976.8	1970.6	1958.2	1948.1
12.5°	1948.1	1947.3	1938.8	1932.5	1916.2
15°	1903.8	1908.5	1903.8	1895.2	1882.0
17.5°	1861.1	1861.1	1864.2	1849.4	1839.3
20°	1812.9	1815.2	1815.2	1803.6	1791.9
22.5°	1756.9	1763.9	1766.3	1753.8	1739.8
25°	1690.9	1704.1	1711.9	1699.4	1684.7
27.5°	1610.8	1631.0	1654.4	1645.0	1628.7
30°	1521.5	1551.0	1589.9	1582.1	1570.4
32.5°	1436.8	1466.3	1519.9	1516.8	1510.6
35°	1359.9	1378.5	1441.4	1449.2	1443.8
37.5°	1286.8	1303.9	1363.0	1380.8	1376.2
40°	1209.9	1228.5	1275.2	1307.0	1308.6
42.5°	1133.7	1151.6	1189.7	1235.5	1235.5
45°	1052.9	1070.8	1105.8	1156.3	1162.5
47.5°	973.7	992.3	1026.5	1077.0	1087.1
50°	895.9	913.0	947.2	996.2	1011.7
52.5°	815.1	833.8	867.2	912.3	934.8
55°	737.4	749.9	786.4	829.9	854.0
57.5°	656.6	668.3	709.5	746.8	771.6
60°	578.9	593.7	625.5	663.6	692.4
62.5°	504.3	519.9	547.0	580.5	613.1
65°	432.0	443.7	470.1	503.5	532.3
67.5°	362.1	372.2	398.6	421.9	452.2
70°	291.4	304.6	324.0	346.6	366.0
72.5°	234.7	240.1	256.4	272.7	293.0
75°	173.3	182.6	195.8	205.1	216.8
77.5°	124.3	129.8	137.5	145.3	156.2
80°	83.1	85.5	92.5	94.0	102.6
82.5°	50.5	52.1	53.6	54.4	57.5
85°	27.2	27.2	27.2	25.6	25.6
87.5°	15.5	15.5	13.2	10.9	7.8
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)