

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: P555484

Luminaire Tested: **FUSL-12-2-LD4-3HI-35-UNV-82-96-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: P555484
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-35-UNV-82-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

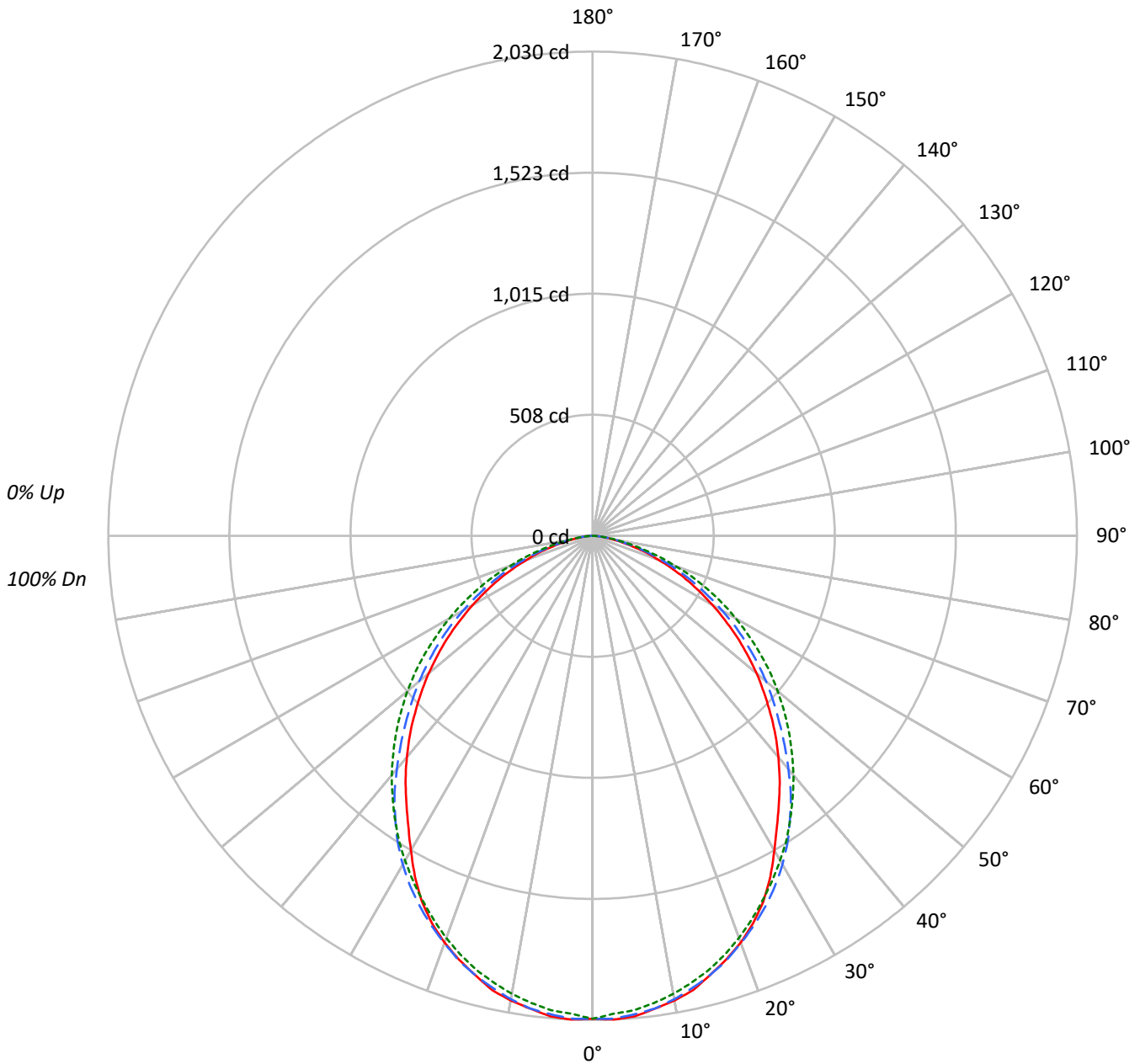
Lumens per Lamp: N/A
Luminaire Lumens: 4682.0 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	10897	10897	10897
5°	10927	10881	10788
10°	10811	10781	10658
15°	10619	10619	10497
20°	10394	10407	10274
25°	10052	10177	10015
30°	9465	9891	9770
35°	8944	9481	9496
40°	8509	8968	9204
45°	8022	8425	8857
50°	7510	7939	8480
55°	6927	7386	8022
60°	6238	6740	7460
65°	5508	5993	6786
70°	4590	5105	5766
75°	3608	4076	4512
80°	2579	2870	3183
85°	1680	1680	1587



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.6	4.1
10°-20°	535.6	11.4
20°-30°	782.7	16.7
30°-40°	888.4	19.0
40°-50°	857.6	18.3
50°-60°	707.5	15.1
60°-70°	471.1	10.1
70°-80°	210.8	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°	1508.9	32.2
0°-40°	2397.3	51.2
0°-60°	3962.3	84.6
0°-90°	4682.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4682.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2025	2025	2025	2025	2025	
5°	2022	2022	2014	2003	1997	191
15°	1906	1910	1906	1897	1884	537
25°	1693	1706	1714	1701	1686	775
35°	1361	1380	1443	1451	1445	853
45°	1054	1072	1107	1158	1164	813
55°	738	751	787	831	855	659
65°	432	444	471	504	533	429
75°	174	183	196	205	217	190
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°	2024.8	2024.8	2024.8	2024.8	2024.8
2.5°	2030.3	2031.1	2026.4	2014.0	2006.2
5°	2022.5	2021.7	2014.0	2003.1	1996.8
7.5°	2000.0	2001.5	1999.2	1983.6	1975.1
10°	1978.2	1978.9	1972.7	1960.3	1950.2
12.5°	1950.2	1949.4	1940.8	1934.6	1918.3
15°	1905.8	1910.5	1905.8	1897.3	1884.0
17.5°	1863.0	1863.0	1866.2	1851.4	1841.3
20°	1814.8	1817.1	1817.1	1805.5	1793.8
22.5°	1758.8	1765.8	1768.1	1755.7	1741.7
25°	1692.7	1705.9	1713.7	1701.2	1686.5
27.5°	1612.6	1632.8	1656.1	1646.8	1630.5
30°	1523.1	1552.7	1591.6	1583.8	1572.1
32.5°	1438.3	1467.9	1521.6	1518.4	1512.2
35°	1361.3	1380.0	1443.0	1450.8	1445.3
37.5°	1288.2	1305.3	1364.4	1382.3	1377.6
40°	1211.2	1229.8	1276.5	1308.4	1310.0
42.5°	1134.9	1152.8	1190.9	1236.8	1236.8
45°	1054.0	1071.9	1106.9	1157.5	1163.7
47.5°	974.7	993.4	1027.6	1078.2	1088.3
50°	896.9	914.0	948.2	997.3	1012.8
52.5°	816.0	834.7	868.1	913.2	935.8
55°	738.2	750.7	787.2	830.8	854.9
57.5°	657.3	669.0	710.2	747.6	772.4
60°	579.5	594.3	626.2	664.3	693.1
62.5°	504.8	520.4	547.6	581.1	613.8
65°	432.5	444.2	470.6	504.1	532.9
67.5°	362.5	372.6	399.1	422.4	452.7
70°	291.7	304.9	324.4	346.9	366.4
72.5°	234.9	240.4	256.7	273.0	293.3
75°	173.5	182.8	196.0	205.4	217.0
77.5°	124.5	129.9	137.7	145.5	156.4
80°	83.2	85.6	92.6	94.1	102.7
82.5°	50.6	52.1	53.7	54.5	57.6
85°	27.2	27.2	27.2	25.7	25.7
87.5°	15.6	15.6	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)