

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: P555460

Luminaire Tested: **FUSL-12-2-LD4-3HI-35-UNV-81-86-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: P555460
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-81-86-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

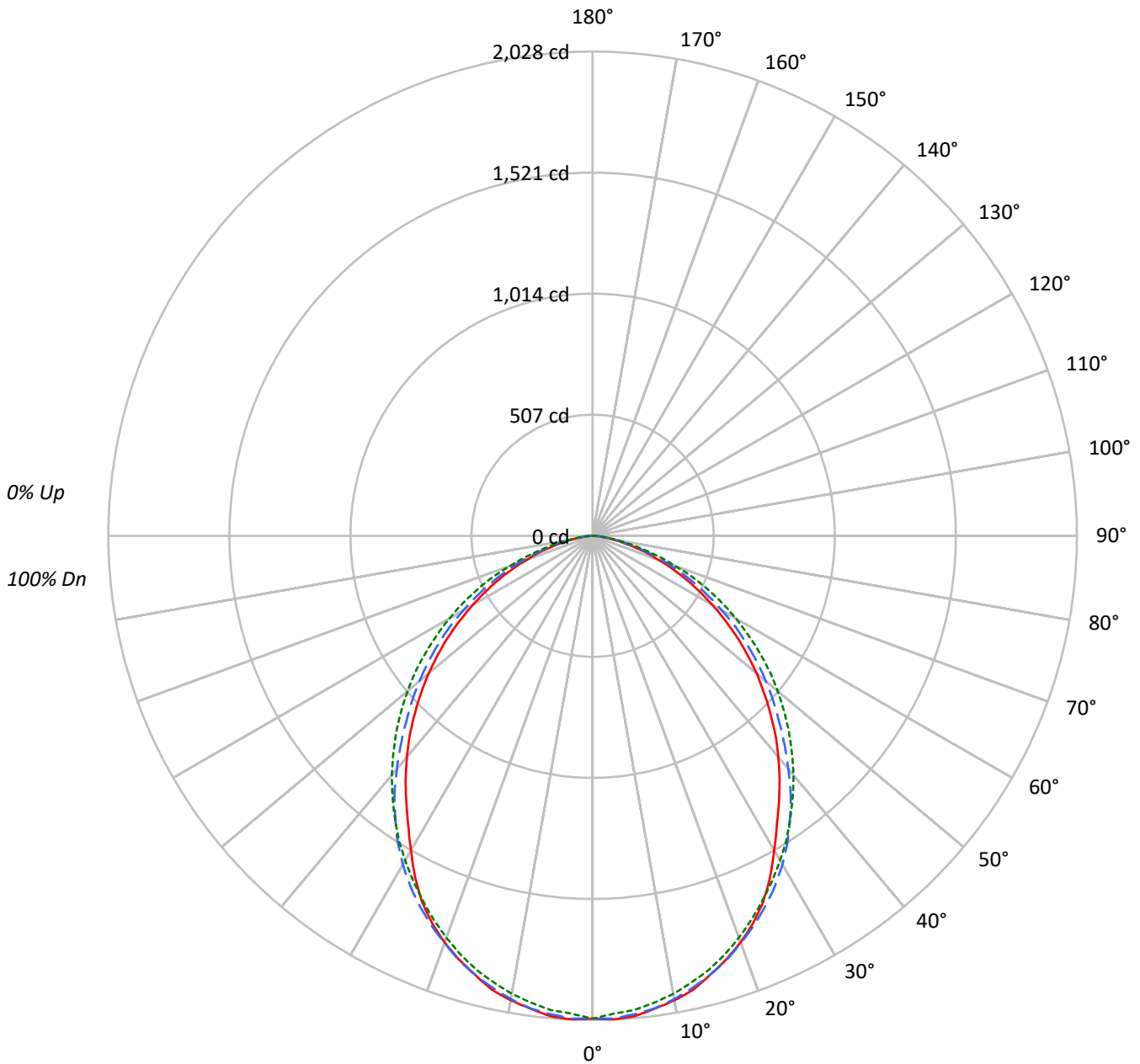
Lumens per Lamp: N/A
Luminaire Lumens: 4676.0 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
Input Voltage (V): NR
Input Current (Ain): 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°	10883	10883	10883
5°	10913	10867	10774
10°	10797	10767	10644
15°	10605	10605	10484
20°	10381	10394	10261
25°	10039	10163	10002
30°	9454	9878	9757
35°	8933	9468	9484
40°	8498	8957	9192
45°	8012	8414	8846
50°	7500	7929	8469
55°	6918	7377	8011
60°	6230	6732	7451
65°	5501	5985	6777
70°	4584	5098	5758
75°	3602	4072	4508
80°	2576	2867	3177
85°	1680	1680	1581



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.4	4.1
10°-20°	534.9	11.4
20°-30°	781.7	16.7
30°-40°	887.3	19.0
40°-50°	856.5	18.3
50°-60°	706.6	15.1
60°-70°	470.5	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°	1506.9	32.2
0°-40°	2394.2	51.2
0°-60°	3957.3	84.6
0°-90°	4676.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4676.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2022	2022	2022	2022	2022	
5°	2020	2019	2011	2000	1994	191
15°	1903	1908	1903	1895	1882	537
25°	1690	1704	1712	1699	1684	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	503	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°	2022.2	2022.2	2022.2	2022.2	2022.2
2.5°	2027.7	2028.5	2023.8	2011.4	2003.6
5°	2019.9	2019.1	2011.4	2000.5	1994.3
7.5°	1997.4	1998.9	1996.6	1981.1	1972.5
10°	1975.6	1976.4	1970.2	1957.8	1947.7
12.5°	1947.7	1946.9	1938.3	1932.1	1915.8
15°	1903.4	1908.0	1903.4	1894.8	1881.6
17.5°	1860.7	1860.7	1863.8	1849.0	1838.9
20°	1812.5	1814.8	1814.8	1803.2	1791.5
22.5°	1756.6	1763.5	1765.9	1753.4	1739.5
25°	1690.5	1703.7	1711.5	1699.1	1684.3
27.5°	1610.5	1630.7	1654.0	1644.7	1628.4
30°	1521.2	1550.7	1589.5	1581.8	1570.1
32.5°	1436.5	1466.0	1519.6	1516.5	1510.3
35°	1359.6	1378.2	1441.1	1448.9	1443.5
37.5°	1286.5	1303.6	1362.7	1380.5	1375.9
40°	1209.6	1228.3	1274.9	1306.7	1308.3
42.5°	1133.5	1151.4	1189.4	1235.3	1235.3
45°	1052.7	1070.6	1105.5	1156.0	1162.2
47.5°	973.4	992.1	1026.3	1076.8	1086.9
50°	895.8	912.8	947.0	996.0	1011.5
52.5°	815.0	833.6	867.0	912.1	934.6
55°	737.3	749.7	786.2	829.7	853.8
57.5°	656.5	668.1	709.3	746.6	771.5
60°	578.8	593.5	625.4	663.5	692.2
62.5°	504.2	519.7	546.9	580.3	613.0
65°	432.0	443.6	470.0	503.4	532.2
67.5°	362.0	372.1	398.5	421.9	452.2
70°	291.3	304.5	324.0	346.5	365.9
72.5°	234.6	240.1	256.4	272.7	292.9
75°	173.2	182.6	195.8	205.1	216.8
77.5°	124.3	129.7	137.5	145.3	156.2
80°	83.1	85.5	92.5	94.0	102.5
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)