

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: P555536

Luminaire Tested: **FUSL-12-2-LD4-3HI-40-UNV-82-84-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: P55536
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-82-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

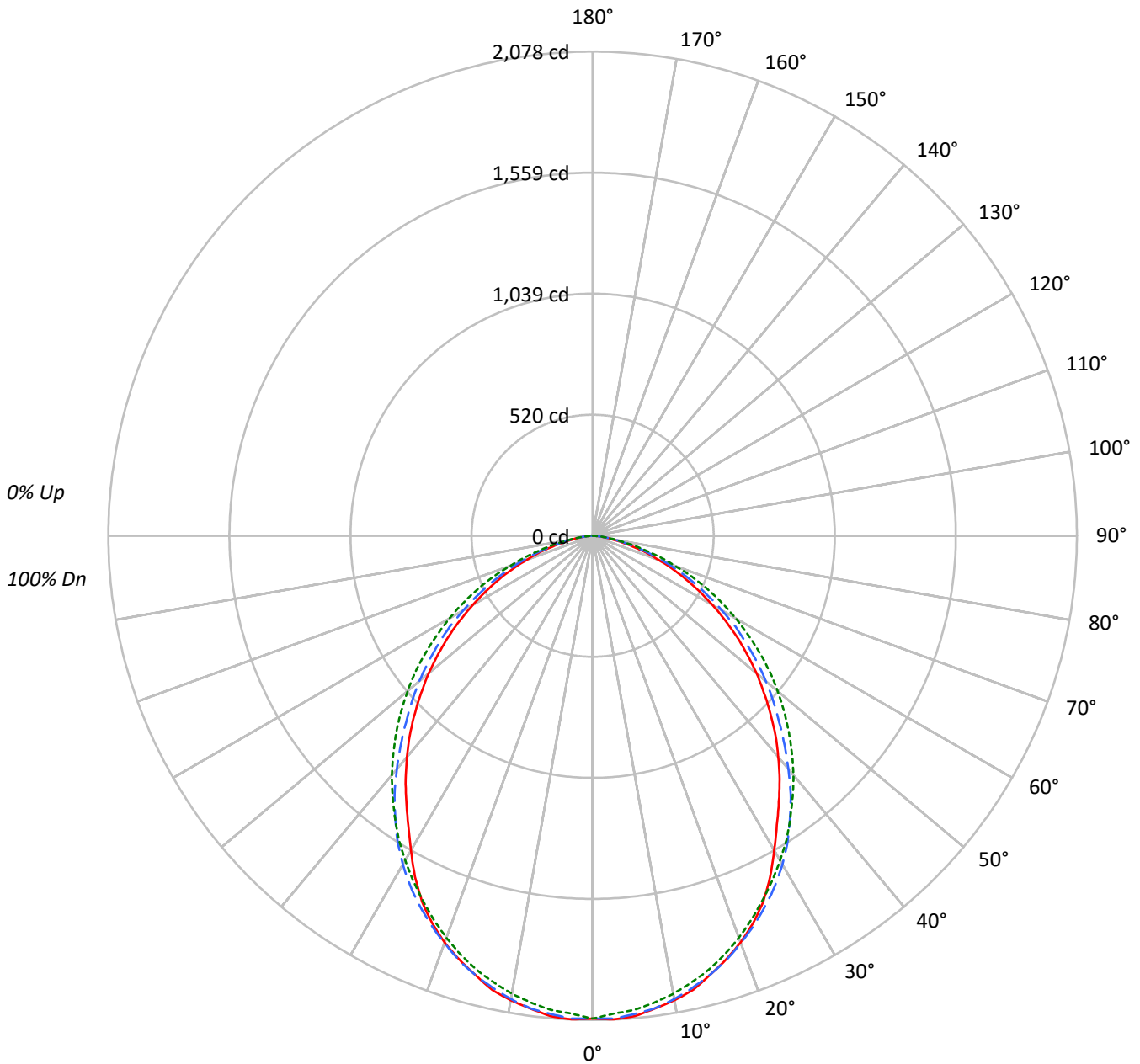
Lumens per Lamp: N/A
Luminaire Lumens: 4791.0 lumens
Efficiency: N/A
Efficacy: 73.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	11151	11151	11151
5°	11181	11134	11039
10°	11062	11032	10906
15°	10866	10866	10742
20°	10636	10650	10513
25°	10286	10413	10248
30°	9686	10121	9997
35°	9152	9701	9717
40°	8708	9177	9418
45°	8209	8621	9063
50°	7685	8124	8678
55°	7088	7559	8208
60°	6383	6898	7634
65°	5636	6133	6944
70°	4697	5223	5899
75°	3691	4171	4618
80°	2641	2935	3257
85°	1723	1723	1624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.1	4.1
10°-20°	548.0	11.4
20°-30°	800.9	16.7
30°-40°	909.1	19.0
40°-50°	877.6	18.3
50°-60°	723.9	15.1
60°-70°	482.1	10.1
70°-80°	215.7	4.5
80°-90°	38.6	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°	1544.0	32.2
0°-40°	2453.1	51.2
0°-60°	4054.6	84.6
0°-90°	4791.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4791.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2072	2072	2072	2072	2072	
5°	2070	2069	2061	2050	2043	196
15°	1950	1955	1950	1941	1928	550
25°	1732	1746	1754	1741	1726	793
35°	1393	1412	1477	1484	1479	873
45°	1079	1097	1133	1184	1191	832
55°	755	768	806	850	875	674
65°	443	454	482	516	545	439
75°	178	187	201	210	222	194
85°	28	28	28	26	26	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2072.0	2072.0	2072.0	2072.0	2072.0
2.5°	2077.6	2078.4	2073.6	2060.8	2052.9
5°	2069.6	2068.8	2060.8	2049.7	2043.3
7.5°	2046.5	2048.1	2045.7	2029.8	2021.0
10°	2024.2	2025.0	2018.7	2005.9	1995.6
12.5°	1995.6	1994.8	1986.0	1979.6	1962.9
15°	1950.2	1955.0	1950.2	1941.4	1927.9
17.5°	1906.4	1906.4	1909.6	1894.5	1884.1
20°	1857.1	1859.5	1859.5	1847.5	1835.6
22.5°	1799.8	1806.9	1809.3	1796.6	1782.2
25°	1732.1	1745.6	1753.6	1740.8	1725.7
27.5°	1650.1	1670.8	1694.7	1685.1	1668.4
30°	1558.6	1588.8	1628.6	1620.7	1608.7
32.5°	1471.8	1502.0	1557.0	1553.8	1547.4
35°	1393.0	1412.1	1476.6	1484.5	1479.0
37.5°	1318.2	1335.7	1396.2	1414.5	1409.7
40°	1239.4	1258.5	1306.2	1338.9	1340.5
42.5°	1161.4	1179.7	1218.7	1265.6	1265.6
45°	1078.6	1096.9	1132.7	1184.4	1190.8
47.5°	997.4	1016.5	1051.5	1103.3	1113.6
50°	917.8	935.3	970.3	1020.5	1036.4
52.5°	835.0	854.1	888.3	934.5	957.6
55°	755.4	768.1	805.6	850.1	874.8
57.5°	672.6	684.6	726.7	765.0	790.4
60°	593.0	608.1	640.8	679.8	709.2
62.5°	516.6	532.5	560.4	594.6	628.0
65°	442.6	454.5	481.6	515.8	545.3
67.5°	370.9	381.3	408.3	432.2	463.3
70°	298.5	312.0	331.9	355.0	374.9
72.5°	240.4	246.0	262.7	279.4	300.1
75°	177.5	187.1	200.6	210.1	222.1
77.5°	127.4	132.9	140.9	148.9	160.0
80°	85.2	87.6	94.7	96.3	105.1
82.5°	51.7	53.3	54.9	55.7	58.9
85°	27.9	27.9	27.9	26.3	26.3
87.5°	15.9	15.9	13.5	11.1	8.0
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)