

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: P555516

Luminaire Tested: **FUSL-12-2-LD4-3HI-40-UNV-80-96-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: P555516
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-80-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND
4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

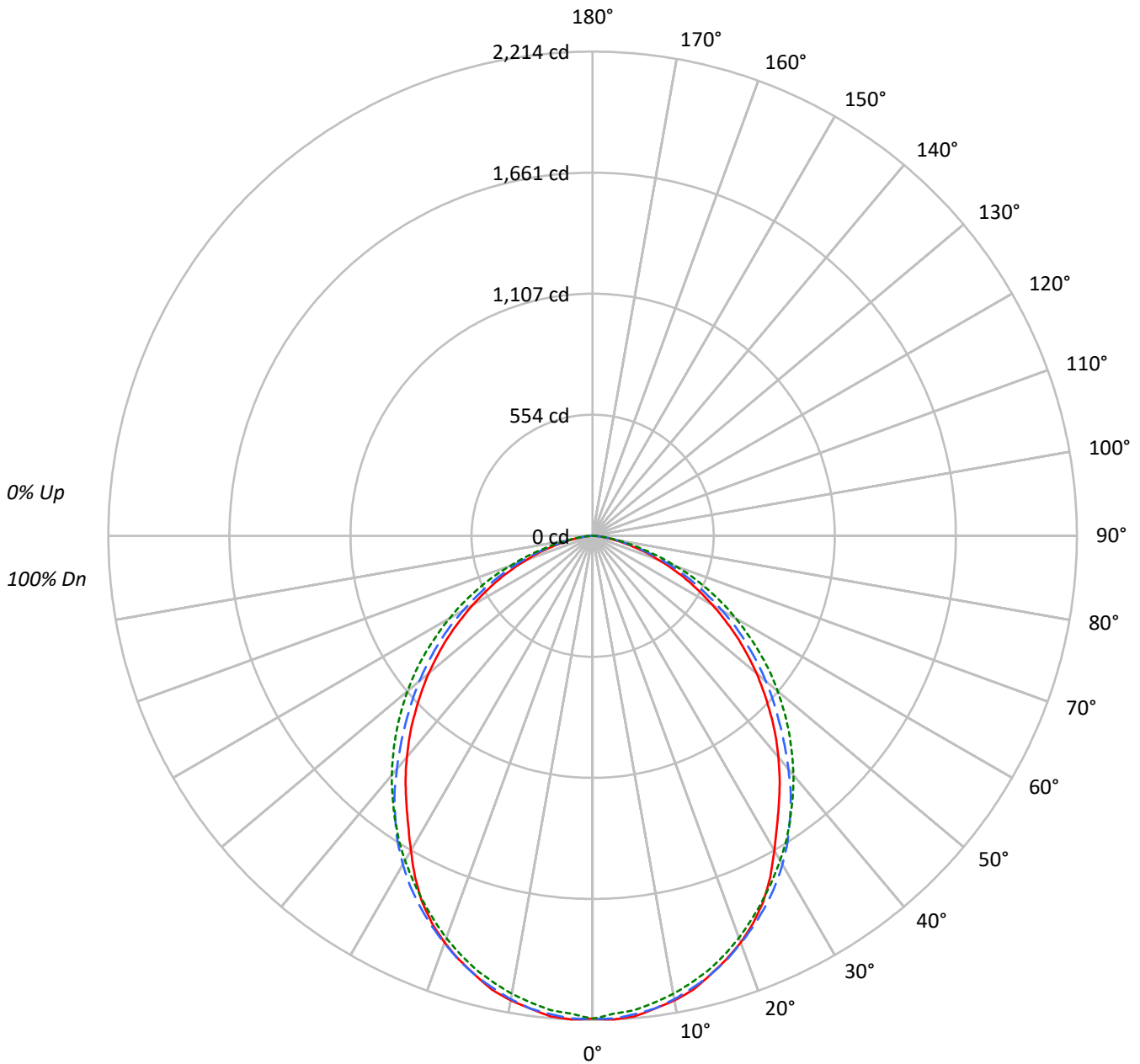
Lumens per Lamp: N/A
Luminaire Lumens: 5106.0 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	11884	11884	11884
5°	11916	11866	11765
10°	11790	11757	11623
15°	11580	11580	11448
20°	11336	11350	11204
25°	10962	11098	10922
30°	10322	10787	10655
35°	9754	10339	10356
40°	9280	9780	10037
45°	8749	9188	9659
50°	8189	8658	9248
55°	7554	8055	8748
60°	6803	7351	8136
65°	6007	6535	7400
70°	5006	5567	6288
75°	3934	4446	4922
80°	2814	3130	3471
85°	1834	1834	1729



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.9	4.1
10°-20°	584.1	11.4
20°-30°	853.5	16.7
30°-40°	968.8	19.0
40°-50°	935.3	18.3
50°-60°	771.5	15.1
60°-70°	513.8	10.1
70°-80°	229.9	4.5
80°-90°	41.1	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°	1645.5	32.2
0°-40°	2614.4	51.2
0°-60°	4321.2	84.6
0°-90°	5106.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5106.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2208	2208	2208	2208	2208	
5°	2206	2205	2196	2184	2178	209
15°	2078	2084	2078	2069	2055	586
25°	1846	1860	1869	1855	1839	845
35°	1485	1505	1574	1582	1576	930
45°	1150	1169	1207	1262	1269	887
55°	805	819	858	906	932	719
65°	472	484	513	550	581	468
75°	189	199	214	224	237	207
85°	30	30	30	28	28	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2208.2	2208.2	2208.2	2208.2	2208.2
2.5°	2214.2	2215.0	2209.9	2196.3	2187.9
5°	2205.7	2204.8	2196.3	2184.5	2177.7
7.5°	2181.1	2182.8	2180.2	2163.3	2153.9
10°	2157.3	2158.2	2151.4	2137.8	2126.8
12.5°	2126.8	2125.9	2116.6	2109.8	2092.0
15°	2078.4	2083.5	2078.4	2069.1	2054.7
17.5°	2031.8	2031.8	2035.2	2019.0	2008.0
20°	1979.2	1981.7	1981.7	1969.0	1956.3
22.5°	1918.1	1925.7	1928.3	1914.7	1899.4
25°	1846.0	1860.4	1868.9	1855.3	1839.2
27.5°	1758.6	1780.7	1806.1	1795.9	1778.1
30°	1661.0	1693.3	1735.7	1727.2	1714.5
32.5°	1568.6	1600.8	1659.3	1655.9	1649.2
35°	1484.6	1504.9	1573.7	1582.1	1576.2
37.5°	1404.8	1423.5	1488.0	1507.5	1502.4
40°	1320.9	1341.2	1392.1	1426.9	1428.6
42.5°	1237.7	1257.2	1298.8	1348.9	1348.9
45°	1149.5	1169.0	1207.2	1262.3	1269.1
47.5°	1063.0	1083.3	1120.6	1175.8	1186.8
50°	978.1	996.8	1034.1	1087.6	1104.5
52.5°	889.9	910.3	946.7	995.9	1020.5
55°	805.1	818.6	858.5	906.0	932.3
57.5°	716.8	729.6	774.5	815.2	842.4
60°	632.0	648.1	682.9	724.5	755.9
62.5°	550.6	567.5	597.2	633.7	669.3
65°	471.7	484.4	513.2	549.7	581.1
67.5°	395.3	406.4	435.2	460.6	493.7
70°	318.1	332.5	353.8	378.4	399.6
72.5°	256.2	262.1	280.0	297.8	319.8
75°	189.2	199.4	213.8	224.0	236.7
77.5°	135.7	141.7	150.2	158.6	170.5
80°	90.8	93.3	101.0	102.6	112.0
82.5°	55.1	56.8	58.5	59.4	62.8
85°	29.7	29.7	29.7	28.0	28.0
87.5°	17.0	17.0	14.4	11.9	8.5
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)