

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: P555444

Luminaire Tested: **FUSL-12-2-LD4-3HI-35-UNV-80-86-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: P555444
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-80-86-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC 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

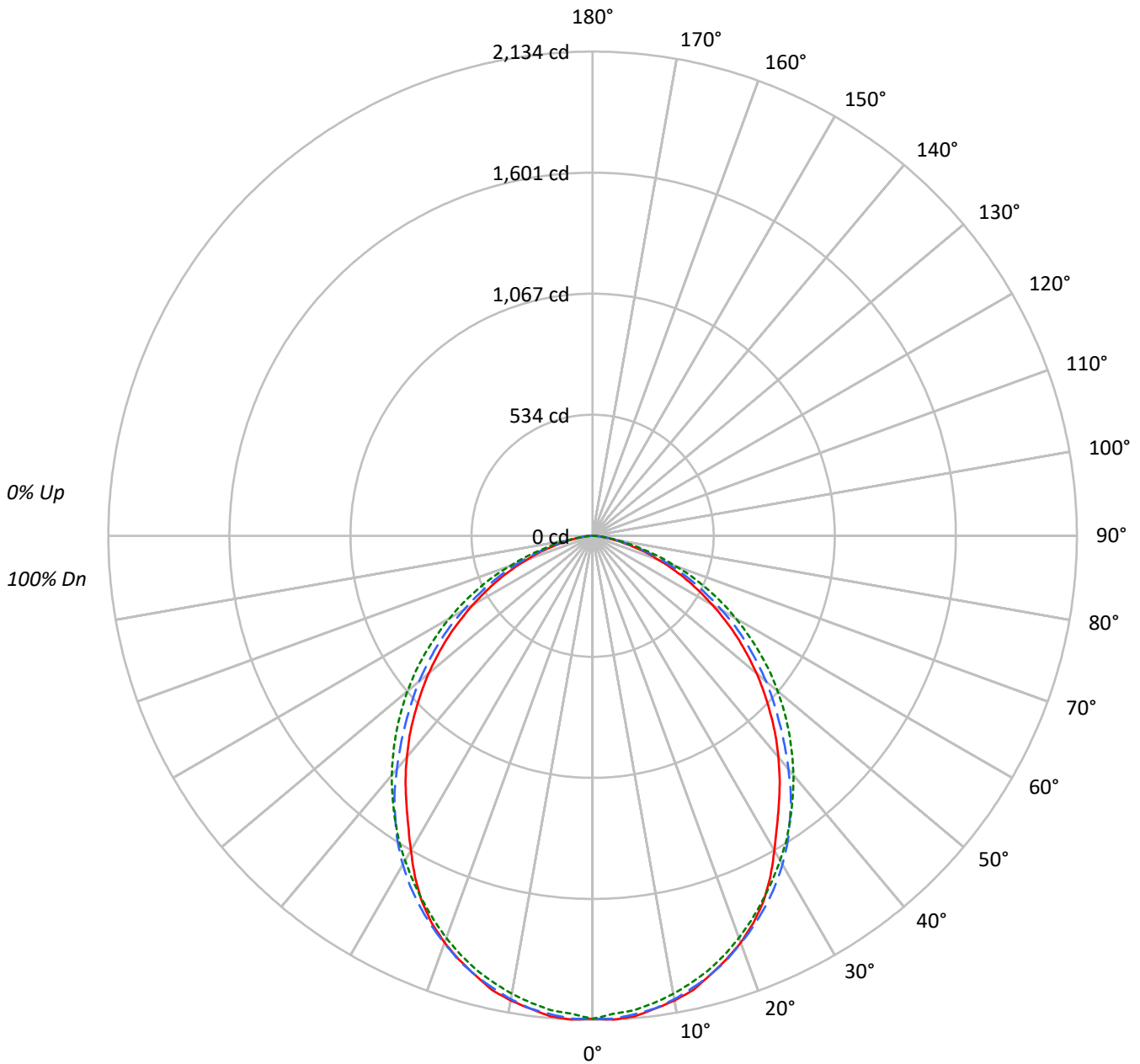
Lumens per Lamp: N/A
Luminaire Lumens: 4922.0 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	11456	11456	11456
5°	11487	11438	11341
10°	11365	11333	11204
15°	11163	11163	11036
20°	10927	10941	10801
25°	10567	10698	10528
30°	9951	10398	10271
35°	9403	9967	9983
40°	8946	9428	9675
45°	8434	8857	9312
50°	7895	8347	8915
55°	7282	7766	8433
60°	6557	7086	7843
65°	5791	6300	7134
70°	4826	5366	6061
75°	3793	4286	4745
80°	2712	3016	3344
85°	1766	1766	1667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.4	4.1
10°-20°	563.0	11.4
20°-30°	822.8	16.7
30°-40°	933.9	19.0
40°-50°	901.6	18.3
50°-60°	743.7	15.1
60°-70°	495.3	10.1
70°-80°	221.6	4.5
80°-90°	39.6	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°	1586.2	32.2
0°-40°	2520.2	51.2
0°-60°	4165.5	84.6
0°-90°	4922.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4922.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2129	2129	2129	2129	2129	
5°	2126	2125	2117	2106	2099	201
15°	2004	2008	2004	1994	1981	565
25°	1780	1793	1802	1788	1773	815
35°	1431	1451	1517	1525	1519	897
45°	1108	1127	1164	1217	1223	855
55°	776	789	828	873	899	693
65°	455	467	495	530	560	451
75°	182	192	206	216	228	199
85°	29	29	29	27	27	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2128.6	2128.6	2128.6	2128.6	2128.6
2.5°	2134.4	2135.2	2130.3	2117.2	2109.0
5°	2126.2	2125.4	2117.2	2105.7	2099.2
7.5°	2102.5	2104.1	2101.7	2085.3	2076.3
10°	2079.6	2080.4	2073.8	2060.8	2050.1
12.5°	2050.1	2049.3	2040.3	2033.8	2016.6
15°	2003.5	2008.4	2003.5	1994.5	1980.6
17.5°	1958.5	1958.5	1961.8	1946.3	1935.6
20°	1907.8	1910.3	1910.3	1898.0	1885.8
22.5°	1849.0	1856.3	1858.8	1845.7	1831.0
25°	1779.5	1793.4	1801.5	1788.4	1772.9
27.5°	1695.2	1716.5	1741.0	1731.2	1714.0
30°	1601.2	1632.3	1673.1	1665.0	1652.7
32.5°	1512.0	1543.1	1599.5	1596.3	1589.7
35°	1431.1	1450.7	1517.0	1525.1	1519.4
37.5°	1354.2	1372.2	1434.4	1453.2	1448.3
40°	1273.3	1292.9	1341.9	1375.5	1377.1
42.5°	1193.1	1211.9	1252.0	1300.2	1300.2
45°	1108.1	1126.9	1163.7	1216.8	1223.4
47.5°	1024.7	1044.3	1080.3	1133.4	1144.1
50°	942.9	960.9	996.9	1048.4	1064.7
52.5°	857.8	877.5	912.6	960.1	983.8
55°	776.1	789.1	827.6	873.4	898.7
57.5°	691.0	703.3	746.6	785.9	812.0
60°	609.2	624.8	658.3	698.4	728.6
62.5°	530.7	547.1	575.7	610.9	645.2
65°	454.7	466.9	494.7	529.9	560.2
67.5°	381.1	391.7	419.5	444.0	475.9
70°	306.7	320.6	341.0	364.7	385.2
72.5°	247.0	252.7	269.9	287.0	308.3
75°	182.4	192.2	206.1	215.9	228.2
77.5°	130.8	136.6	144.7	152.9	164.4
80°	87.5	90.0	97.3	98.9	107.9
82.5°	53.2	54.8	56.4	57.2	60.5
85°	28.6	28.6	28.6	27.0	27.0
87.5°	16.4	16.4	13.9	11.4	8.2
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)