

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: P555510

Luminaire Tested: **FUSL-12-2-LD4-3HI-40-UNV-80-87-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: P555510
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-80-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

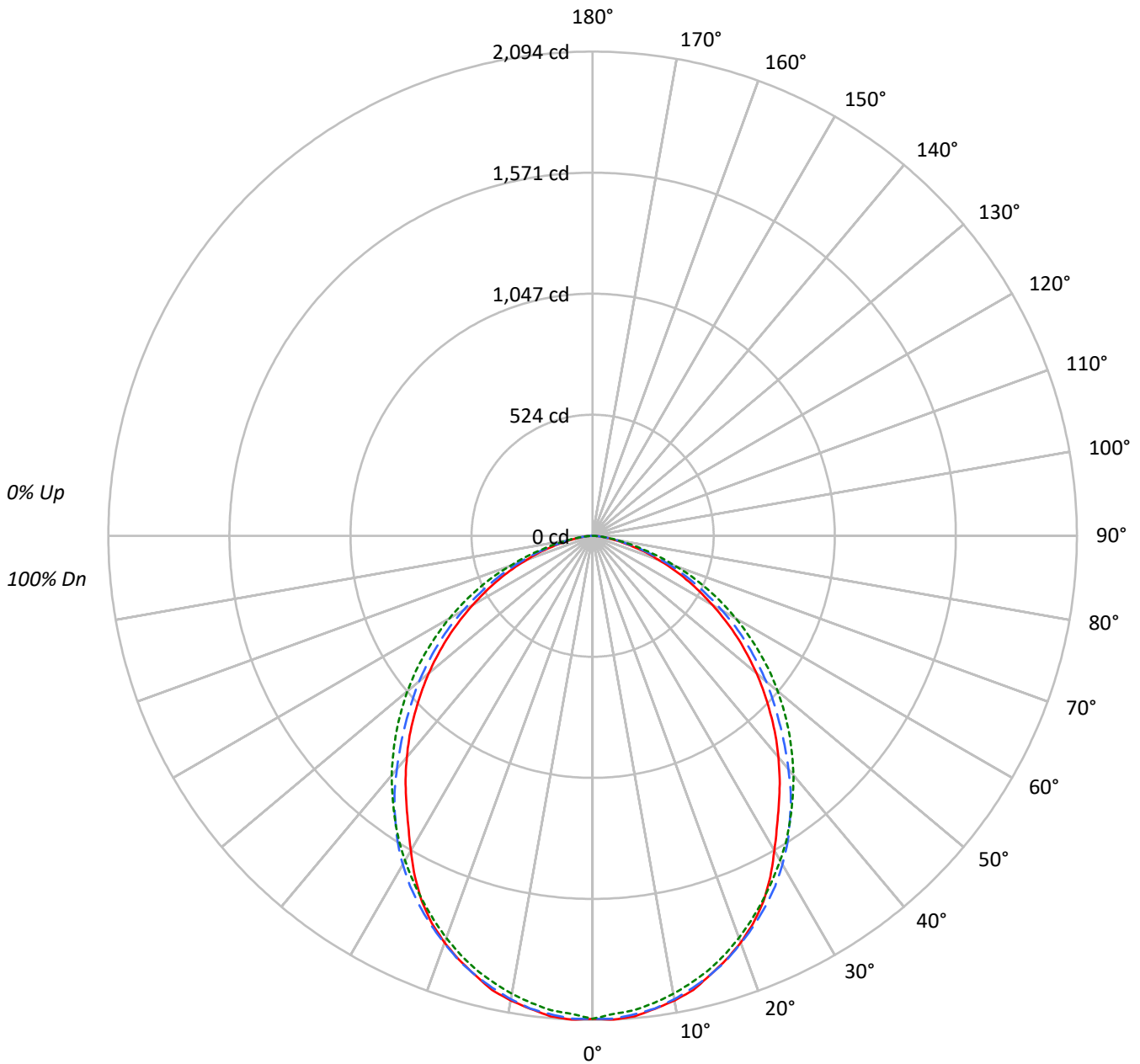
Lumens per Lamp: N/A
Luminaire Lumens: 4830.0 lumens
Efficiency: N/A
Efficacy: 74.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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					20					
RC	80					70					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54					54			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47					47			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34					34			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11242	11242	11242
5°	11272	11224	11129
10°	11152	11122	10994
15°	10955	10955	10829
20°	10723	10737	10598
25°	10370	10498	10332
30°	9765	10204	10079
35°	9226	9780	9796
40°	8779	9252	9494
45°	8276	8691	9137
50°	7747	8190	8748
55°	7146	7620	8275
60°	6435	6953	7696
65°	5682	6183	7000
70°	4735	5265	5948
75°	3722	4205	4656
80°	2662	2960	3282
85°	1735	1735	1636



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.7	4.1
10°-20°	552.5	11.4
20°-30°	807.4	16.7
30°-40°	916.5	19.0
40°-50°	884.7	18.3
50°-60°	729.8	15.1
60°-70°	486.0	10.1
70°-80°	217.5	4.5
80°-90°	38.9	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°	1556.6	32.2
0°-40°	2473.0	51.2
0°-60°	4087.6	84.6
0°-90°	4830.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4830.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2089	2089	2089	2089	2089	
5°	2086	2086	2078	2066	2060	197
15°	1966	1971	1966	1957	1944	554
25°	1746	1760	1768	1755	1740	800
35°	1404	1424	1489	1497	1491	880
45°	1087	1106	1142	1194	1200	839
55°	762	774	812	857	882	680
65°	446	458	486	520	550	442
75°	179	189	202	212	224	196
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°	2088.9	2088.9	2088.9	2088.9	2088.9
2.5°	2094.5	2095.3	2090.5	2077.6	2069.6
5°	2086.4	2085.6	2077.6	2066.4	2060.0
7.5°	2063.2	2064.8	2062.4	2046.3	2037.5
10°	2040.7	2041.5	2035.1	2022.2	2011.8
12.5°	2011.8	2011.0	2002.2	1995.8	1978.9
15°	1966.1	1970.9	1966.1	1957.2	1943.6
17.5°	1921.9	1921.9	1925.1	1909.9	1899.5
20°	1872.2	1874.6	1874.6	1862.6	1850.5
22.5°	1814.4	1821.6	1824.0	1811.2	1796.7
25°	1746.2	1759.8	1767.9	1755.0	1739.8
27.5°	1663.5	1684.4	1708.5	1698.8	1682.0
30°	1571.3	1601.7	1641.9	1633.8	1621.8
32.5°	1483.8	1514.3	1569.6	1566.4	1560.0
35°	1404.3	1423.6	1488.6	1496.6	1491.0
37.5°	1328.9	1346.6	1407.5	1426.0	1421.2
40°	1249.5	1268.7	1316.9	1349.8	1351.4
42.5°	1170.8	1189.3	1228.6	1275.9	1275.9
45°	1087.4	1105.8	1141.9	1194.1	1200.5
47.5°	1005.5	1024.8	1060.1	1112.2	1122.7
50°	925.3	942.9	978.2	1028.8	1044.8
52.5°	841.8	861.1	895.6	942.1	965.4
55°	761.6	774.4	812.1	857.0	881.9
57.5°	678.1	690.1	732.7	771.2	796.9
60°	597.8	613.1	646.0	685.3	715.0
62.5°	520.8	536.9	564.9	599.5	633.2
65°	446.2	458.2	485.5	520.0	549.7
67.5°	374.0	384.4	411.7	435.7	467.0
70°	300.9	314.6	334.6	357.9	378.0
72.5°	242.3	248.0	264.8	281.7	302.5
75°	179.0	188.6	202.2	211.9	223.9
77.5°	128.4	134.0	142.0	150.1	161.3
80°	85.9	88.3	95.5	97.1	105.9
82.5°	52.2	53.8	55.4	56.2	59.4
85°	28.1	28.1	28.1	26.5	26.5
87.5°	16.0	16.0	13.6	11.2	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)