

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: P555959

Luminaire Tested: **FUSL-12-2-LD4-3STD-35-UNV-80-87-EDD**

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: P555959
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-LD4-3STD-35-UNV-80-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

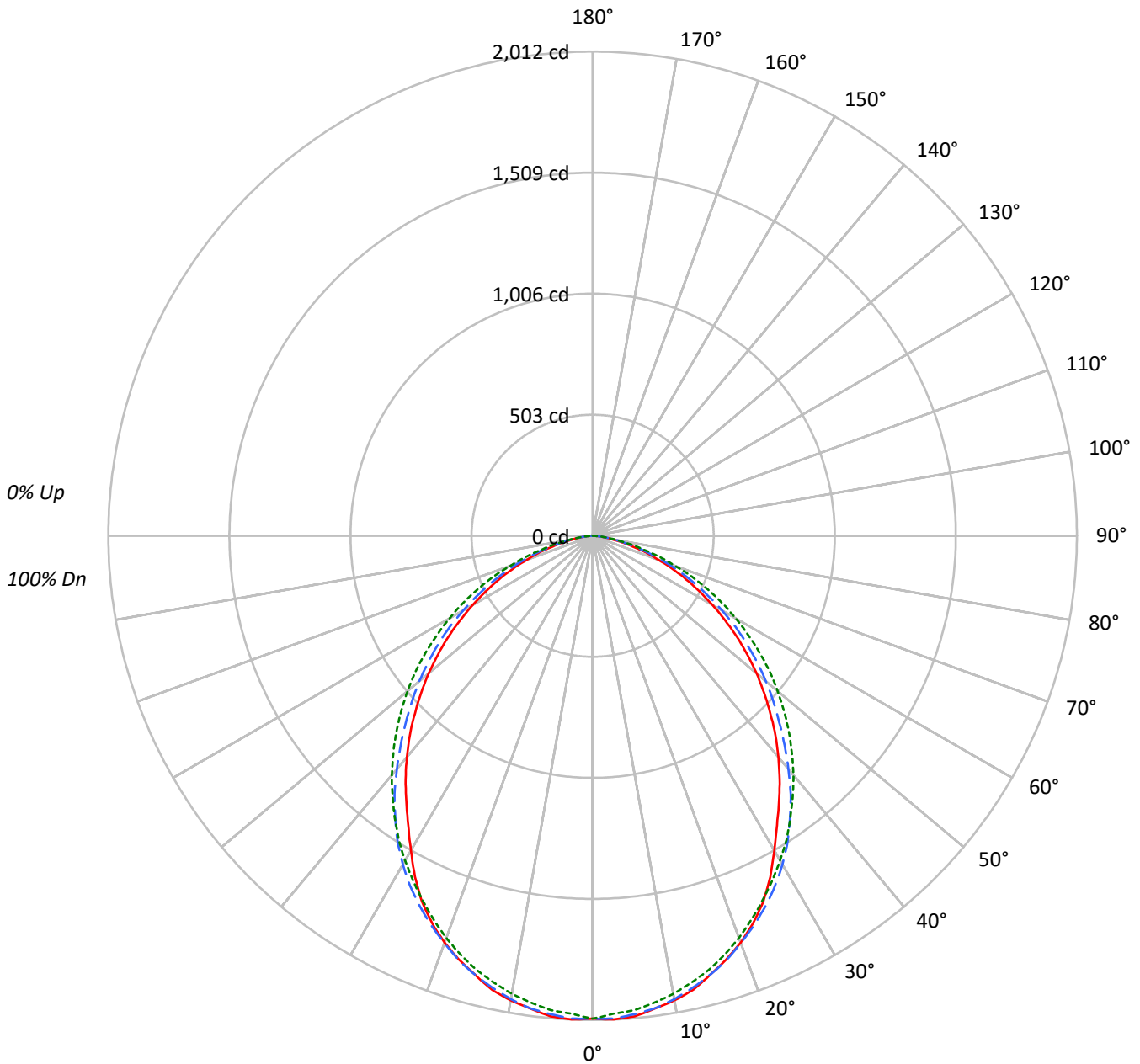
Lumens per Lamp: N/A
Luminaire Lumens: 4640.0 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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°	10800	10800	10800
5°	10829	10783	10691
10°	10714	10684	10562
15°	10523	10523	10403
20°	10301	10314	10182
25°	9962	10085	9925
30°	9380	9802	9682
35°	8864	9395	9411
40°	8433	8888	9121
45°	7951	8350	8778
50°	7443	7868	8404
55°	6865	7321	7949
60°	6182	6680	7394
65°	5458	5940	6725
70°	4549	5059	5714
75°	3575	4040	4473
80°	2557	2842	3155
85°	1667	1667	1568



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.9	4.1
10°-20°	530.8	11.4
20°-30°	775.6	16.7
30°-40°	880.4	19.0
40°-50°	849.9	18.3
50°-60°	701.1	15.1
60°-70°	466.9	10.1
70°-80°	208.9	4.5
80°-90°	37.4	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°	1495.3	32.2
0°-40°	2375.8	51.2
0°-60°	3926.8	84.6
0°-90°	4640.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4640.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2007	2007	2007	2007	2007	
5°	2004	2004	1996	1985	1979	190
15°	1889	1893	1889	1880	1867	532
25°	1678	1691	1698	1686	1671	768
35°	1349	1368	1430	1438	1432	845
45°	1045	1062	1097	1147	1153	806
55°	732	744	780	823	847	653
65°	429	440	466	500	528	425
75°	172	181	194	204	215	188
85°	27	27	27	25	25	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2006.7	2006.7	2006.7	2006.7	2006.7
2.5°	2012.1	2012.8	2008.2	1995.9	1988.2
5°	2004.4	2003.6	1995.9	1985.1	1978.9
7.5°	1982.0	1983.6	1981.2	1965.8	1957.3
10°	1960.4	1961.2	1955.0	1942.7	1932.7
12.5°	1932.7	1931.9	1923.4	1917.3	1901.1
15°	1888.7	1893.4	1888.7	1880.3	1867.1
17.5°	1846.3	1846.3	1849.4	1834.8	1824.7
20°	1798.5	1800.8	1800.8	1789.3	1777.7
22.5°	1743.0	1750.0	1752.3	1739.9	1726.1
25°	1677.5	1690.6	1698.3	1686.0	1671.3
27.5°	1598.1	1618.1	1641.3	1632.0	1615.8
30°	1509.4	1538.7	1577.3	1569.6	1558.0
32.5°	1425.4	1454.7	1507.9	1504.8	1498.7
35°	1349.1	1367.6	1430.0	1437.7	1432.4
37.5°	1276.6	1293.6	1352.2	1369.9	1365.3
40°	1200.3	1218.8	1265.1	1296.7	1298.2
42.5°	1124.8	1142.5	1180.3	1225.7	1225.7
45°	1044.6	1062.3	1097.0	1147.1	1153.3
47.5°	966.0	984.5	1018.4	1068.5	1078.5
50°	888.9	905.8	939.7	988.3	1003.7
52.5°	808.7	827.2	860.3	905.0	927.4
55°	731.6	743.9	780.2	823.3	847.2
57.5°	651.4	663.0	703.8	740.8	765.5
60°	574.3	589.0	620.6	658.4	686.9
62.5°	500.3	515.7	542.7	575.9	608.2
65°	428.6	440.2	466.4	499.6	528.1
67.5°	359.2	369.3	395.5	418.6	448.7
70°	289.1	302.2	321.5	343.8	363.1
72.5°	232.8	238.2	254.4	270.6	290.6
75°	171.9	181.2	194.3	203.5	215.1
77.5°	123.3	128.7	136.5	144.2	155.0
80°	82.5	84.8	91.7	93.3	101.8
82.5°	50.1	51.7	53.2	54.0	57.0
85°	27.0	27.0	27.0	25.4	25.4
87.5°	15.4	15.4	13.1	10.8	7.7
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)