

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: P554741

Luminaire Tested: **FUSL-12-2-LD4-2HI-40-UNV-80-86-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: P554741
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-LD4-2HI-40-UNV-80-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

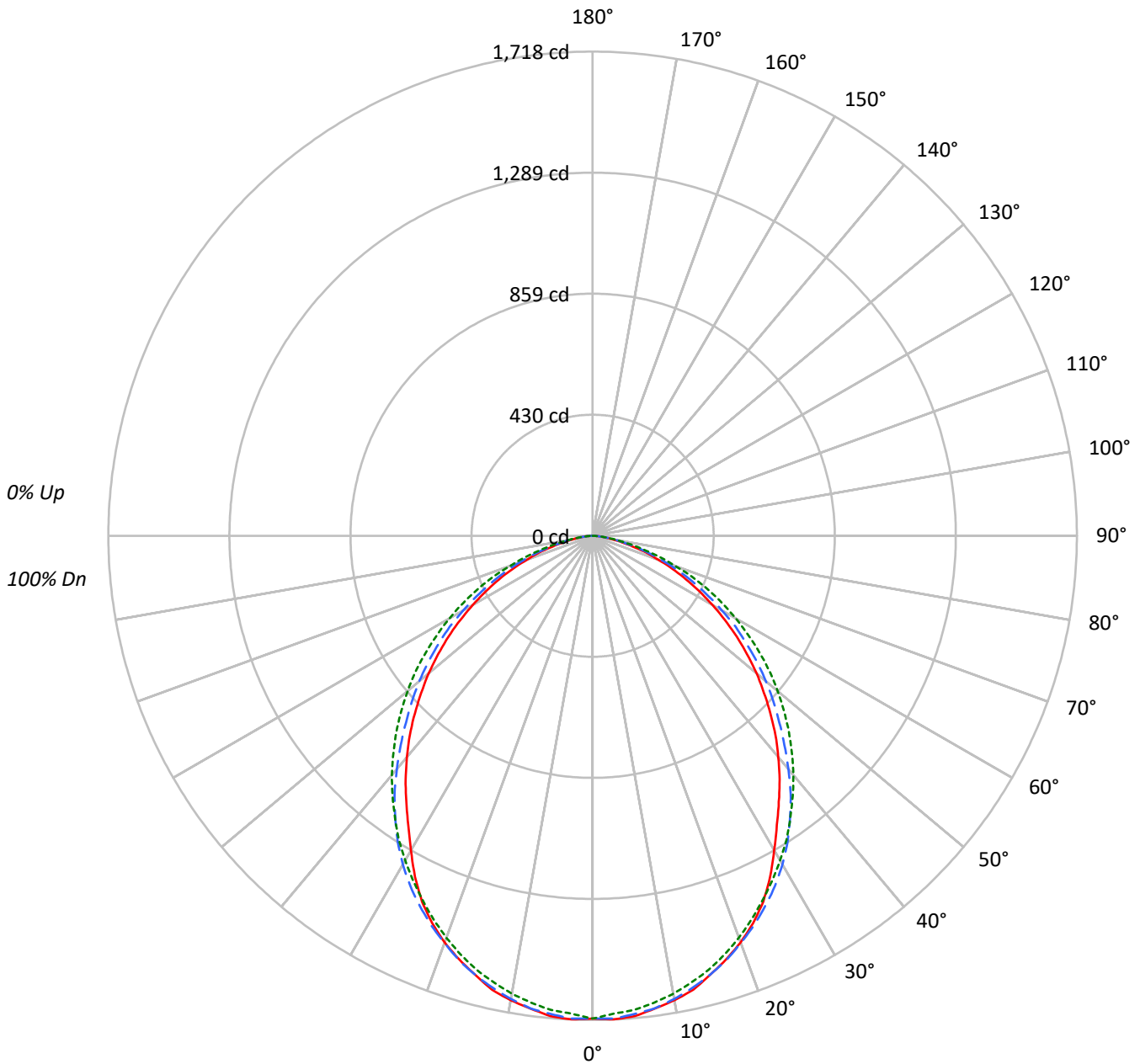
Lumens per Lamp: N/A
Luminaire Lumens: 3961.0 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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

TEST NUMBER: P554741

CATALOG NUMBER: FUSL-12-2-LD4-2HI-40-UNV-80-86-EDD

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°	9219	9219	9219
5°	9244	9205	9126
10°	9146	9121	9017
15°	8983	8983	8881
20°	8793	8805	8692
25°	8504	8609	8473
30°	8008	8368	8265
35°	7567	8021	8033
40°	7199	7587	7786
45°	6787	7128	7493
50°	6353	6717	7174
55°	5860	6249	6787
60°	5278	5703	6312
65°	4660	5070	5741
70°	3884	4318	4878
75°	3053	3448	3818
80°	2182	2427	2693
85°	1420	1420	1340



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.3	4.1
10°-20°	453.1	11.4
20°-30°	662.1	16.7
30°-40°	751.6	19.0
40°-50°	725.5	18.3
50°-60°	598.5	15.1
60°-70°	398.6	10.1
70°-80°	178.4	4.5
80°-90°	31.9	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°	1276.5	32.2
0°-40°	2028.1	51.2
0°-60°	3352.2	84.6
0°-90°	3961.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3961.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1713	1713	1713	1713	1713	
5°	1711	1710	1704	1695	1689	162
15°	1612	1616	1612	1605	1594	455
25°	1432	1443	1450	1439	1427	656
35°	1152	1168	1221	1227	1223	722
45°	892	907	936	979	984	688
55°	624	635	666	703	723	557
65°	366	376	398	426	451	363
75°	147	155	166	174	184	160
85°	23	23	23	22	22	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1713.0	1713.0	1713.0	1713.0	1713.0
2.5°	1717.6	1718.3	1714.3	1703.8	1697.2
5°	1711.1	1710.4	1703.8	1694.6	1689.3
7.5°	1692.0	1693.3	1691.3	1678.2	1670.9
10°	1673.5	1674.2	1668.9	1658.4	1649.9
12.5°	1649.9	1649.2	1642.0	1636.7	1622.9
15°	1612.3	1616.3	1612.3	1605.1	1593.9
17.5°	1576.1	1576.1	1578.8	1566.3	1557.7
20°	1535.3	1537.3	1537.3	1527.4	1517.6
22.5°	1488.0	1493.9	1495.9	1485.3	1473.5
25°	1432.0	1443.2	1449.8	1439.3	1426.8
27.5°	1364.2	1381.3	1401.1	1393.2	1379.4
30°	1288.6	1313.6	1346.5	1339.9	1330.0
32.5°	1216.8	1241.8	1287.2	1284.6	1279.3
35°	1151.7	1167.5	1220.8	1227.4	1222.7
37.5°	1089.8	1104.3	1154.3	1169.4	1165.5
40°	1024.7	1040.5	1079.9	1106.9	1108.2
42.5°	960.2	975.3	1007.5	1046.4	1046.4
45°	891.7	906.9	936.5	979.3	984.5
47.5°	824.6	840.4	869.3	912.1	920.7
50°	758.8	773.3	802.2	843.7	856.8
52.5°	690.3	706.1	734.4	772.6	791.7
55°	624.5	635.1	666.0	702.8	723.3
57.5°	556.1	566.0	600.8	632.4	653.5
60°	490.3	502.8	529.8	562.0	586.4
62.5°	427.1	440.3	463.3	491.6	519.2
65°	365.9	375.8	398.1	426.4	450.8
67.5°	306.7	315.2	337.6	357.3	383.0
70°	246.8	258.0	274.4	293.5	310.0
72.5°	198.7	203.4	217.2	231.0	248.1
75°	146.8	154.7	165.8	173.7	183.6
77.5°	105.3	109.9	116.5	123.1	132.3
80°	70.4	72.4	78.3	79.6	86.9
82.5°	42.8	44.1	45.4	46.1	48.7
85°	23.0	23.0	23.0	21.7	21.7
87.5°	13.2	13.2	11.2	9.2	6.6
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)