

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: P554613

Luminaire Tested: **FUSL-12-2-LD4-2HI-30-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: P554613
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-30-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 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

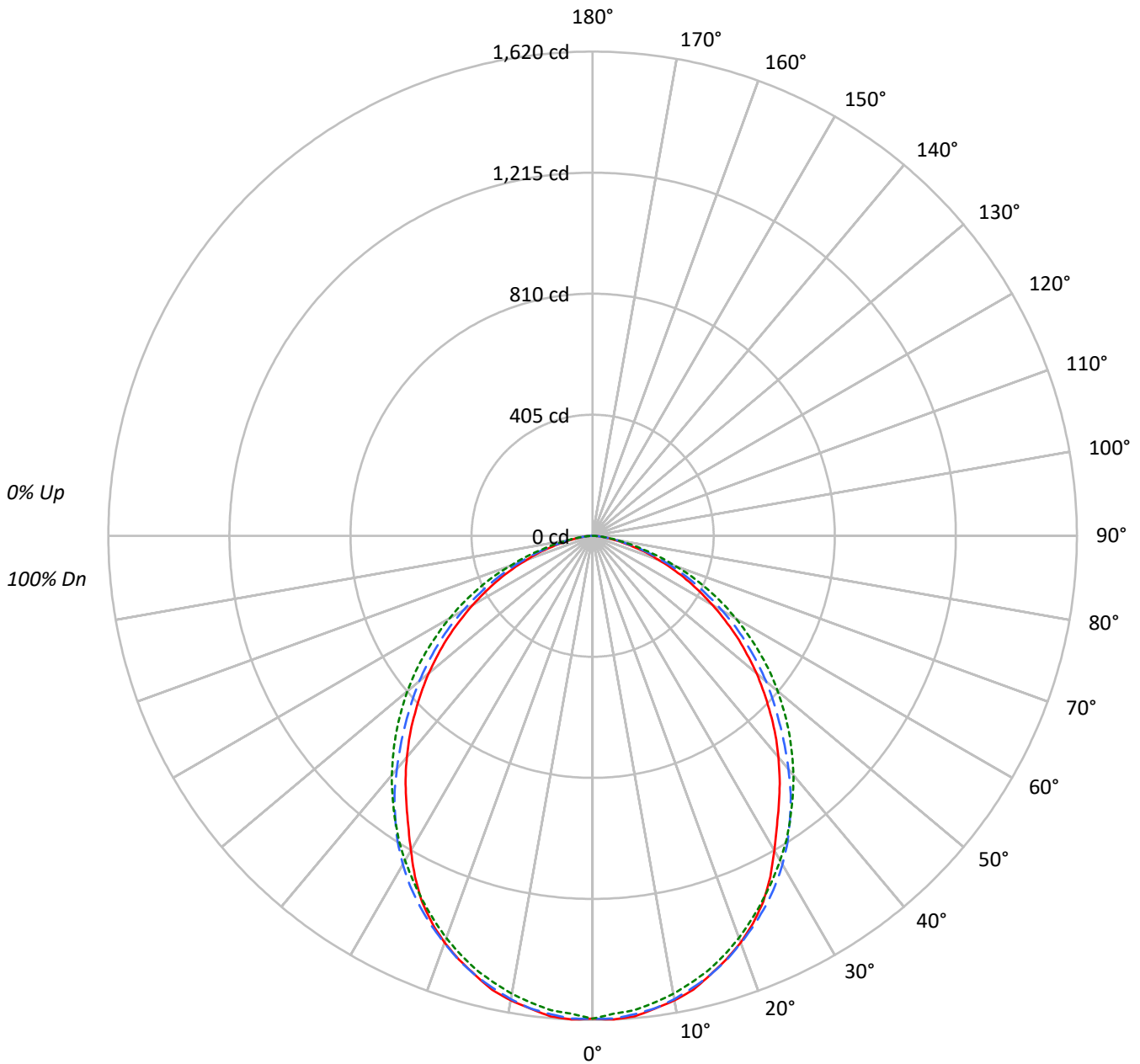
Lumens per Lamp: N/A
Luminaire Lumens: 3736.0 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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	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°	8696	8696	8696
5°	8719	8682	8608
10°	8626	8602	8504
15°	8474	8474	8377
20°	8294	8305	8198
25°	8021	8120	7991
30°	7553	7892	7796
35°	7137	7565	7577
40°	6790	7156	7344
45°	6402	6723	7068
50°	5992	6336	6767
55°	5528	5894	6401
60°	4977	5379	5954
65°	4395	4782	5415
70°	3663	4072	4601
75°	2878	3252	3602
80°	2058	2290	2538
85°	1340	1340	1266



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.1	4.1
10°-20°	427.4	11.4
20°-30°	624.5	16.7
30°-40°	708.9	19.0
40°-50°	684.3	18.3
50°-60°	564.5	15.1
60°-70°	375.9	10.1
70°-80°	168.2	4.5
80°-90°	30.1	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°	1204.0	32.2
0°-40°	1912.9	51.2
0°-60°	3161.8	84.6
0°-90°	3736.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3736.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1616	1616	1616	1616	1616	
5°	1614	1613	1607	1598	1593	153
15°	1521	1524	1521	1514	1503	429
25°	1351	1361	1367	1358	1346	619
35°	1086	1101	1151	1158	1153	681
45°	841	855	883	924	929	649
55°	589	599	628	663	682	526
65°	345	354	376	402	425	342
75°	138	146	156	164	173	151
85°	22	22	22	20	20	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1615.7	1615.7	1615.7	1615.7	1615.7
2.5°	1620.1	1620.7	1617.0	1607.0	1600.8
5°	1613.9	1613.2	1607.0	1598.3	1593.4
7.5°	1595.9	1597.1	1595.2	1582.8	1576.0
10°	1578.5	1579.1	1574.1	1564.2	1556.1
12.5°	1556.1	1555.5	1548.7	1543.7	1530.7
15°	1520.8	1524.5	1520.8	1513.9	1503.4
17.5°	1486.6	1486.6	1489.1	1477.3	1469.2
20°	1448.1	1450.0	1450.0	1440.7	1431.4
22.5°	1403.4	1409.0	1410.9	1401.0	1389.8
25°	1350.7	1361.2	1367.4	1357.5	1345.7
27.5°	1286.7	1302.9	1321.5	1314.1	1301.0
30°	1215.4	1238.9	1270.0	1263.8	1254.5
32.5°	1147.7	1171.3	1214.1	1211.6	1206.7
35°	1086.3	1101.2	1151.4	1157.6	1153.3
37.5°	1027.9	1041.6	1088.7	1103.0	1099.3
40°	966.5	981.4	1018.6	1044.0	1045.3
42.5°	905.6	919.9	950.3	986.9	986.9
45°	841.1	855.3	883.3	923.6	928.6
47.5°	777.8	792.7	820.0	860.3	868.4
50°	715.7	729.3	756.7	795.8	808.2
52.5°	651.1	666.0	692.7	728.7	746.7
55°	589.1	599.0	628.2	662.9	682.2
57.5°	524.5	533.8	566.7	596.5	616.4
60°	462.4	474.2	499.7	530.1	553.1
62.5°	402.8	415.3	437.0	463.7	489.7
65°	345.1	354.4	375.5	402.2	425.2
67.5°	289.3	297.3	318.4	337.0	361.3
70°	232.8	243.3	258.8	276.8	292.4
72.5°	187.5	191.8	204.8	217.9	234.0
75°	138.4	145.9	156.4	163.9	173.2
77.5°	99.3	103.7	109.9	116.1	124.8
80°	66.4	68.3	73.9	75.1	81.9
82.5°	40.3	41.6	42.8	43.5	45.9
85°	21.7	21.7	21.7	20.5	20.5
87.5°	12.4	12.4	10.6	8.7	6.2
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)