

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: P554819

Luminaire Tested: **FUSL-12-2-LD4-2HI-50-UNV-81-85-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: P554819
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-50-UNV-81-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

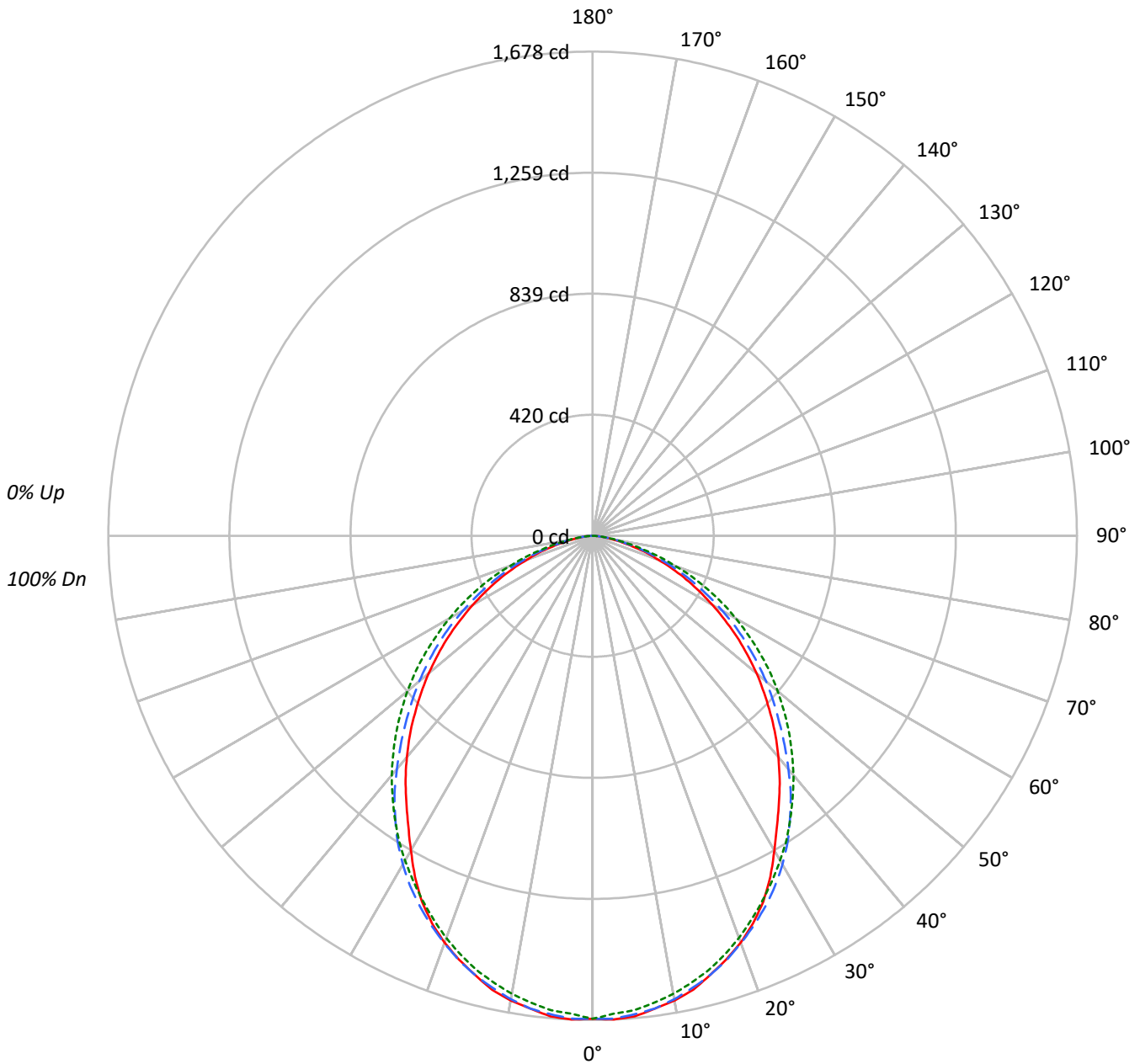
Lumens per Lamp: N/A
Luminaire Lumens: 3870.0 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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									
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°	9008	9008	9008
5°	9031	8994	8917
10°	8936	8911	8809
15°	8777	8777	8677
20°	8592	8602	8492
25°	8308	8412	8278
30°	7824	8175	8076
35°	7393	7836	7849
40°	7033	7413	7607
45°	6631	6964	7321
50°	6208	6563	7010
55°	5726	6106	6630
60°	5156	5571	6167
65°	4553	4954	5608
70°	3794	4219	4765
75°	2982	3369	3730
80°	2132	2371	2631
85°	1389	1389	1309



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.6	4.1
10°-20°	442.7	11.4
20°-30°	646.9	16.7
30°-40°	734.3	19.0
40°-50°	708.9	18.3
50°-60°	584.8	15.1
60°-70°	389.4	10.1
70°-80°	174.3	4.5
80°-90°	31.2	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°	1247.2	32.2
0°-40°	1981.5	51.2
0°-60°	3275.2	84.6
0°-90°	3870.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3870.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1674	1674	1674	1674	1674	
5°	1672	1671	1665	1656	1650	158
15°	1575	1579	1575	1568	1557	444
25°	1399	1410	1416	1406	1394	641
35°	1125	1141	1193	1199	1195	705
45°	871	886	915	957	962	672
55°	610	620	651	687	707	545
65°	358	367	389	417	440	354
75°	143	151	162	170	179	157
85°	22	22	22	21	21	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1673.7	1673.7	1673.7	1673.7	1673.7
2.5°	1678.2	1678.8	1675.0	1664.7	1658.2
5°	1671.7	1671.1	1664.7	1655.7	1650.5
7.5°	1653.1	1654.4	1652.5	1639.6	1632.5
10°	1635.1	1635.7	1630.6	1620.3	1611.9
12.5°	1611.9	1611.3	1604.2	1599.1	1585.6
15°	1575.3	1579.2	1575.3	1568.2	1557.3
17.5°	1539.9	1539.9	1542.5	1530.3	1521.9
20°	1500.1	1502.0	1502.0	1492.4	1482.7
22.5°	1453.8	1459.6	1461.5	1451.2	1439.6
25°	1399.1	1410.1	1416.5	1406.2	1394.0
27.5°	1332.9	1349.6	1368.9	1361.2	1347.7
30°	1259.0	1283.4	1315.5	1309.1	1299.5
32.5°	1188.9	1213.3	1257.7	1255.1	1250.0
35°	1125.2	1140.6	1192.7	1199.2	1194.7
37.5°	1064.8	1078.9	1127.8	1142.6	1138.7
40°	1001.1	1016.6	1055.1	1081.5	1082.8
42.5°	938.1	952.9	984.4	1022.3	1022.3
45°	871.2	886.0	915.0	956.8	961.9
47.5°	805.7	821.1	849.4	891.2	899.5
50°	741.4	755.5	783.8	824.3	837.2
52.5°	674.5	689.9	717.6	754.9	773.5
55°	610.2	620.5	650.7	686.7	706.6
57.5°	543.3	553.0	587.0	617.9	638.5
60°	479.0	491.2	517.6	549.1	572.9
62.5°	417.3	430.2	452.7	480.3	507.3
65°	357.5	367.1	389.0	416.7	440.4
67.5°	299.6	308.0	329.8	349.1	374.2
70°	241.1	252.0	268.1	286.8	302.8
72.5°	194.2	198.7	212.2	225.7	242.4
75°	143.4	151.1	162.0	169.7	179.4
77.5°	102.9	107.4	113.8	120.2	129.2
80°	68.8	70.7	76.5	77.8	84.9
82.5°	41.8	43.1	44.4	45.0	47.6
85°	22.5	22.5	22.5	21.2	21.2
87.5°	12.9	12.9	10.9	9.0	6.4
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)