

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: P554623

Luminaire Tested: **FUSL-12-2-LD4-2HI-30-UNV-80-97-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: P554623
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-80-97-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

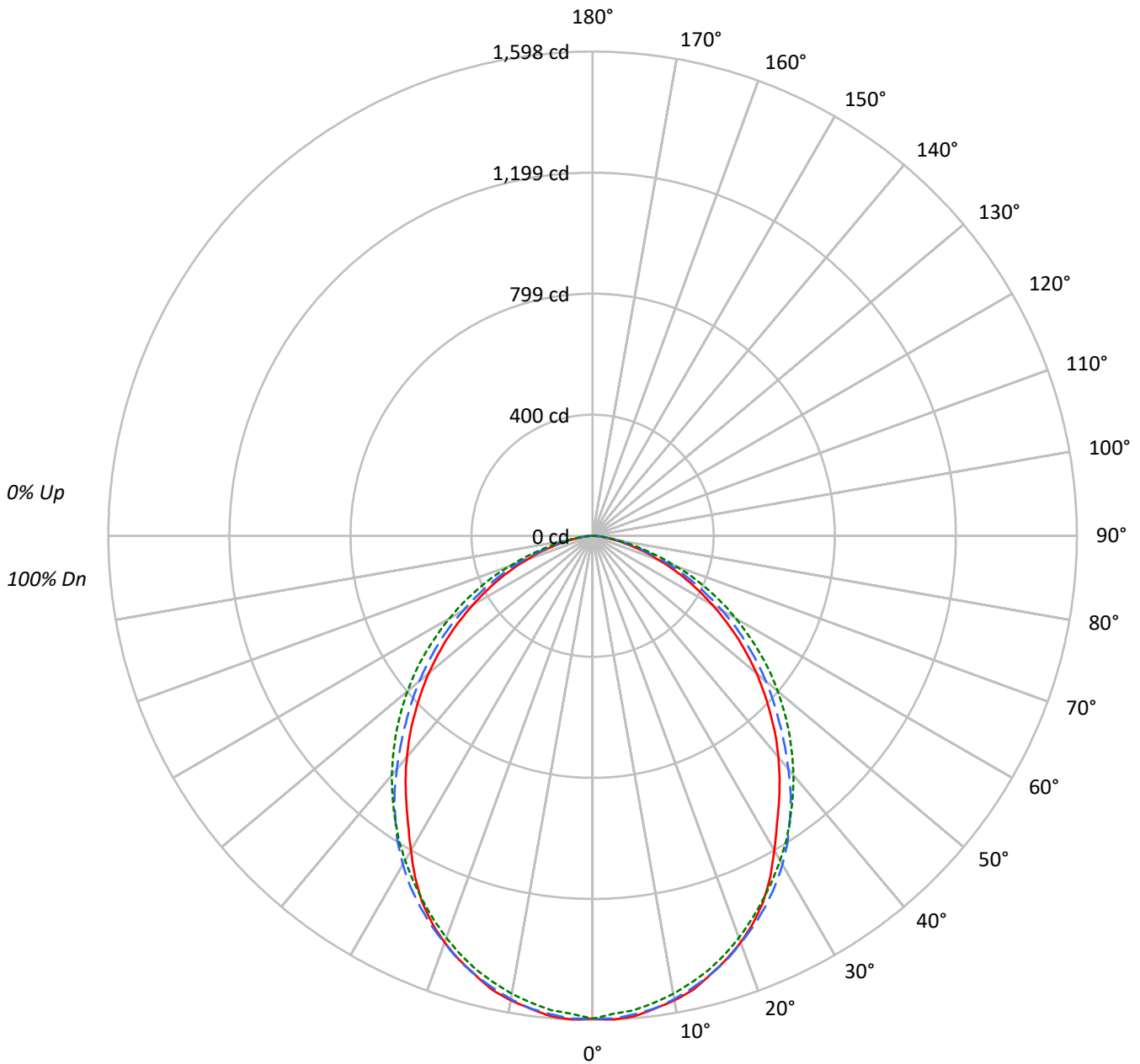
Lumens per Lamp: N/A
Luminaire Lumens: 3685.0 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
Input Voltage (V): NR
Input Current (A_{in}): 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°	8577	8577	8577
5°	8600	8564	8491
10°	8508	8485	8388
15°	8358	8358	8262
20°	8181	8191	8086
25°	7911	8010	7882
30°	7450	7784	7689
35°	7039	7462	7474
40°	6698	7059	7243
45°	6314	6631	6971
50°	5910	6249	6674
55°	5452	5814	6314
60°	4909	5306	5872
65°	4335	4717	5341
70°	3613	4017	4538
75°	2838	3209	3552
80°	2030	2259	2504
85°	1321	1321	1247



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.0	4.1
10°-20°	421.5	11.4
20°-30°	616.0	16.7
30°-40°	699.2	19.0
40°-50°	675.0	18.3
50°-60°	556.8	15.1
60°-70°	370.8	10.1
70°-80°	165.9	4.5
80°-90°	29.7	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°	1187.6	32.2
0°-40°	1886.8	51.2
0°-60°	3118.6	84.6
0°-90°	3685.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3685.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1594	1594	1594	1594	1594	
5°	1592	1591	1585	1576	1572	151
15°	1500	1504	1500	1493	1483	423
25°	1332	1343	1349	1339	1327	610
35°	1071	1086	1136	1142	1138	671
45°	830	844	871	911	916	640
55°	581	591	620	654	673	519
65°	340	350	370	397	419	338
75°	136	144	154	162	171	149
85°	21	21	21	20	20	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1593.7	1593.7	1593.7	1593.7	1593.7
2.5°	1598.0	1598.6	1594.9	1585.1	1579.0
5°	1591.8	1591.2	1585.1	1576.5	1571.6
7.5°	1574.1	1575.3	1573.5	1561.2	1554.5
10°	1556.9	1557.5	1552.6	1542.9	1534.9
12.5°	1534.9	1534.3	1527.5	1522.6	1509.8
15°	1500.0	1503.7	1500.0	1493.3	1482.9
17.5°	1466.3	1466.3	1468.8	1457.1	1449.2
20°	1428.4	1430.2	1430.2	1421.0	1411.8
22.5°	1384.3	1389.8	1391.6	1381.8	1370.8
25°	1332.2	1342.6	1348.8	1339.0	1327.3
27.5°	1269.2	1285.1	1303.5	1296.1	1283.3
30°	1198.8	1222.0	1252.6	1246.5	1237.3
32.5°	1132.0	1155.3	1197.5	1195.1	1190.2
35°	1071.4	1086.1	1135.7	1141.8	1137.5
37.5°	1013.9	1027.3	1073.9	1088.0	1084.3
40°	953.3	968.0	1004.7	1029.8	1031.0
42.5°	893.3	907.3	937.3	973.5	973.5
45°	829.6	843.7	871.2	911.0	915.9
47.5°	767.1	781.8	808.8	848.6	856.5
50°	705.9	719.4	746.3	784.9	797.1
52.5°	642.2	656.9	683.3	718.8	736.5
55°	581.0	590.8	619.6	653.9	672.9
57.5°	517.3	526.5	559.0	588.4	608.0
60°	456.1	467.8	492.9	522.9	545.5
62.5°	397.3	409.6	431.0	457.3	483.1
65°	340.4	349.6	370.4	396.7	419.4
67.5°	285.3	293.3	314.1	332.4	356.3
70°	229.6	240.0	255.3	273.1	288.4
72.5°	184.9	189.2	202.0	214.9	230.8
75°	136.5	143.9	154.3	161.6	170.8
77.5°	98.0	102.2	108.4	114.5	123.1
80°	65.5	67.3	72.9	74.1	80.8
82.5°	39.8	41.0	42.2	42.9	45.3
85°	21.4	21.4	21.4	20.2	20.2
87.5°	12.2	12.2	10.4	8.6	6.1
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)