

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: P554653

Luminaire Tested: **FUSL-12-2-LD4-2HI-30-UNV-82-96-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: P554653
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-82-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

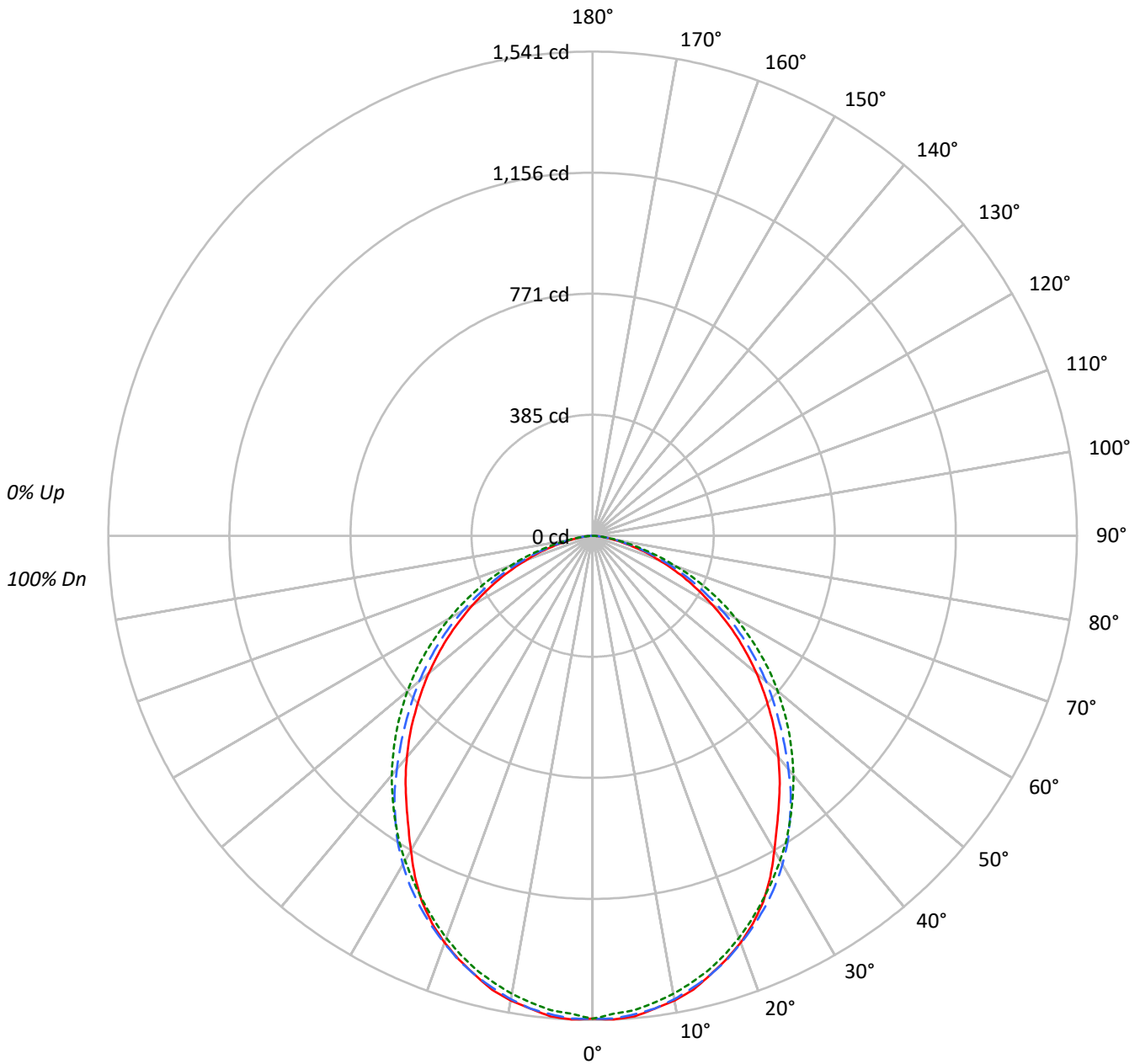
Lumens per Lamp: N/A
Luminaire Lumens: 3554.0 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	8272	8272	8272
5°	8294	8259	8189
10°	8206	8184	8090
15°	8061	8061	7968
20°	7890	7900	7798
25°	7630	7725	7602
30°	7185	7508	7416
35°	6789	7196	7208
40°	6459	6808	6986
45°	6090	6395	6724
50°	5700	6027	6437
55°	5258	5607	6089
60°	4735	5116	5663
65°	4181	4549	5151
70°	3484	3874	4376
75°	2739	3094	3425
80°	1959	2179	2414
85°	1278	1278	1204



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.7	4.1
10°-20°	406.5	11.4
20°-30°	594.1	16.7
30°-40°	674.4	19.0
40°-50°	651.0	18.3
50°-60°	537.0	15.1
60°-70°	357.6	10.1
70°-80°	160.0	4.5
80°-90°	28.6	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°	1145.4	32.2
0°-40°	1819.7	51.2
0°-60°	3007.7	84.6
0°-90°	3554.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3554.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1537	1537	1537	1537	1537	
5°	1535	1535	1529	1520	1516	145
15°	1447	1450	1447	1440	1430	408
25°	1285	1295	1301	1291	1280	588
35°	1033	1048	1095	1101	1097	647
45°	800	814	840	879	883	617
55°	560	570	598	631	649	500
65°	328	337	357	383	404	326
75°	132	139	149	156	165	144
85°	21	21	21	20	20	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1537.0	1537.0	1537.0	1537.0	1537.0
2.5°	1541.1	1541.7	1538.2	1528.7	1522.8
5°	1535.2	1534.7	1528.7	1520.5	1515.8
7.5°	1518.1	1519.3	1517.5	1505.7	1499.2
10°	1501.6	1502.2	1497.5	1488.0	1480.3
12.5°	1480.3	1479.7	1473.2	1468.5	1456.1
15°	1446.7	1450.2	1446.7	1440.2	1430.1
17.5°	1414.2	1414.2	1416.6	1405.3	1397.7
20°	1377.6	1379.4	1379.4	1370.5	1361.6
22.5°	1335.1	1340.4	1342.2	1332.7	1322.1
25°	1284.9	1294.9	1300.8	1291.4	1280.2
27.5°	1224.1	1239.4	1257.1	1250.0	1237.6
30°	1156.2	1178.6	1208.1	1202.2	1193.4
32.5°	1091.8	1114.2	1155.0	1152.6	1147.9
35°	1033.3	1047.5	1095.3	1101.2	1097.1
37.5°	977.8	990.8	1035.7	1049.3	1045.7
40°	919.4	933.5	969.0	993.2	994.4
42.5°	861.5	875.1	904.0	938.9	938.9
45°	800.1	813.7	840.2	878.6	883.4
47.5°	739.9	754.0	780.0	818.4	826.1
50°	680.8	693.8	719.8	757.0	768.8
52.5°	619.4	633.6	659.0	693.2	710.3
55°	560.4	569.8	597.6	630.6	648.9
57.5°	499.0	507.8	539.1	567.4	586.3
60°	439.9	451.1	475.3	504.3	526.1
62.5°	383.2	395.0	415.7	441.1	465.9
65°	328.3	337.2	357.2	382.6	404.5
67.5°	275.2	282.8	302.9	320.6	343.7
70°	221.4	231.5	246.2	263.4	278.1
72.5°	178.3	182.5	194.9	207.3	222.6
75°	131.7	138.8	148.8	155.9	164.7
77.5°	94.5	98.6	104.5	110.4	118.7
80°	63.2	65.0	70.3	71.4	77.9
82.5°	38.4	39.6	40.7	41.3	43.7
85°	20.7	20.7	20.7	19.5	19.5
87.5°	11.8	11.8	10.0	8.3	5.9
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)