

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: P554635

Luminaire Tested: **FUSL-12-2-LD4-2HI-30-UNV-81-94-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: P554635
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-81-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

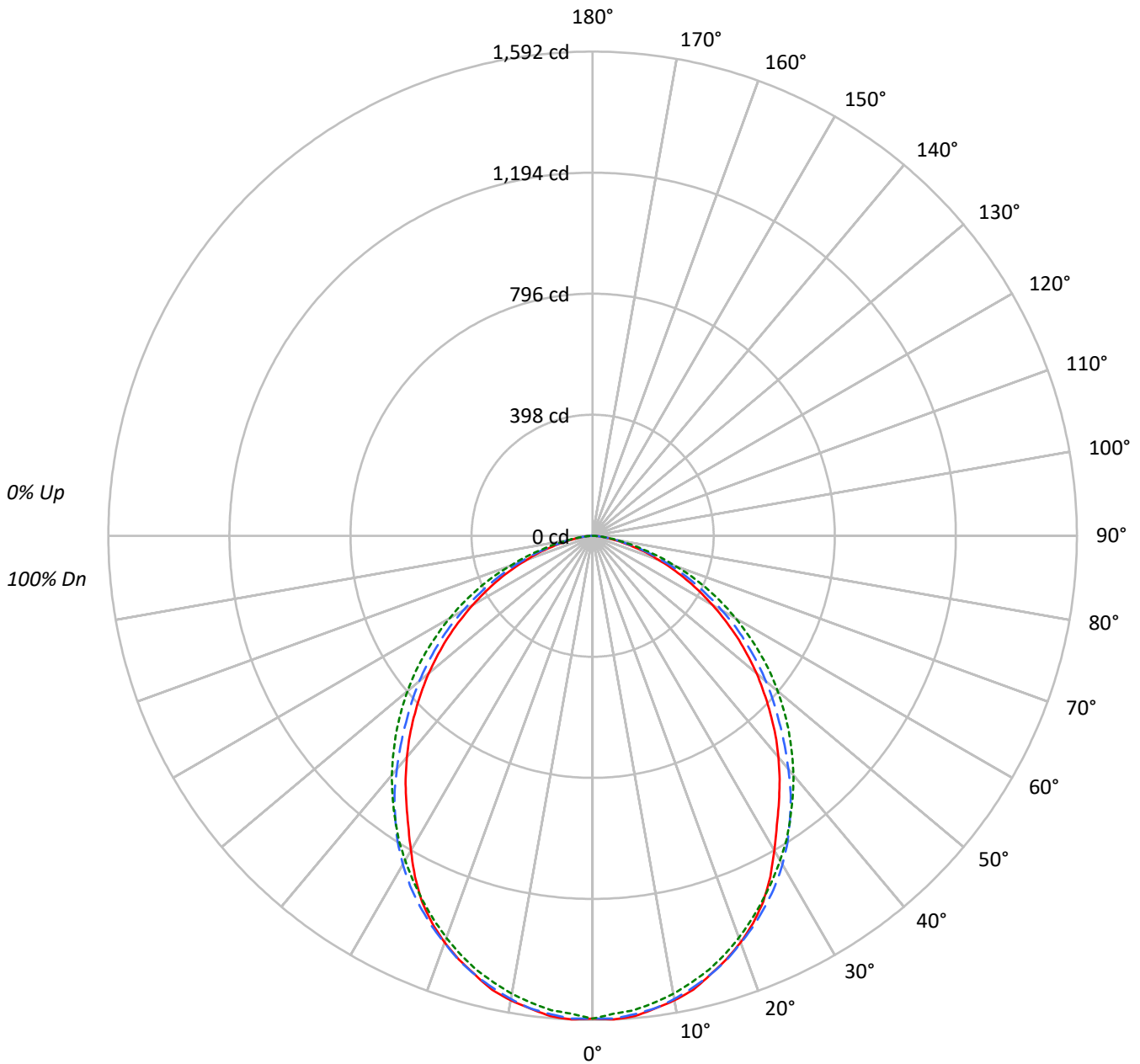
Lumens per Lamp: N/A
Luminaire Lumens: 3671.0 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	8544	8544	8544
5°	8567	8531	8459
10°	8476	8453	8357
15°	8326	8326	8231
20°	8149	8160	8056
25°	7881	7979	7852
30°	7421	7755	7660
35°	7013	7433	7445
40°	6672	7032	7216
45°	6290	6606	6944
50°	5888	6225	6649
55°	5431	5791	6290
60°	4891	5285	5849
65°	4318	4699	5321
70°	3599	4002	4521
75°	2828	3196	3539
80°	2024	2250	2495
85°	1315	1315	1241



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.5	4.1
10°-20°	419.9	11.4
20°-30°	613.6	16.7
30°-40°	696.6	19.0
40°-50°	672.4	18.3
50°-60°	554.7	15.1
60°-70°	369.4	10.1
70°-80°	165.3	4.5
80°-90°	29.6	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°	1183.1	32.2
0°-40°	1879.6	51.2
0°-60°	3106.8	84.6
0°-90°	3671.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3671.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1588	1588	1588	1588	1588	
5°	1586	1585	1579	1570	1566	150
15°	1494	1498	1494	1488	1477	421
25°	1327	1338	1344	1334	1322	608
35°	1067	1082	1131	1138	1133	669
45°	826	840	868	908	912	638
55°	579	589	617	651	670	517
65°	339	348	369	395	418	336
75°	136	143	154	161	170	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°	1587.6	1587.6	1587.6	1587.6	1587.6
2.5°	1591.9	1592.5	1588.8	1579.1	1573.0
5°	1585.8	1585.2	1579.1	1570.5	1565.7
7.5°	1568.1	1569.3	1567.5	1555.3	1548.6
10°	1551.0	1551.6	1546.7	1537.0	1529.1
12.5°	1529.1	1528.5	1521.7	1516.9	1504.1
15°	1494.3	1498.0	1494.3	1487.6	1477.2
17.5°	1460.8	1460.8	1463.2	1451.6	1443.7
20°	1422.9	1424.8	1424.8	1415.6	1406.5
22.5°	1379.0	1384.5	1386.3	1376.6	1365.6
25°	1327.2	1337.5	1343.6	1333.9	1322.3
27.5°	1264.4	1280.2	1298.5	1291.2	1278.4
30°	1194.2	1217.4	1247.9	1241.8	1232.6
32.5°	1127.7	1150.9	1193.0	1190.6	1185.7
35°	1067.4	1082.0	1131.4	1137.5	1133.2
37.5°	1010.0	1023.4	1069.8	1083.8	1080.2
40°	949.6	964.3	1000.9	1025.9	1027.1
42.5°	889.9	903.9	933.8	969.8	969.8
45°	826.4	840.5	867.9	907.6	912.4
47.5°	764.2	778.9	805.7	845.3	853.3
50°	703.2	716.7	743.5	781.9	794.1
52.5°	639.8	654.4	680.7	716.0	733.7
55°	578.8	588.6	617.2	651.4	670.3
57.5°	515.4	524.5	556.9	586.1	605.6
60°	454.4	466.0	491.0	520.9	543.4
62.5°	395.8	408.0	429.4	455.6	481.2
65°	339.1	348.3	369.0	395.2	417.8
67.5°	284.2	292.2	312.9	331.2	355.0
70°	228.7	239.1	254.3	272.0	287.3
72.5°	184.2	188.5	201.3	214.1	229.9
75°	136.0	143.3	153.7	161.0	170.2
77.5°	97.6	101.9	108.0	114.1	122.6
80°	65.3	67.1	72.6	73.8	80.5
82.5°	39.6	40.9	42.1	42.7	45.1
85°	21.3	21.3	21.3	20.1	20.1
87.5°	12.2	12.2	10.4	8.5	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)