

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: P554746

Luminaire Tested: **FUSL-12-2-LD4-2HI-40-UNV-80-94-EDD-90**

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: P554746
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-40-UNV-80-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND
4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

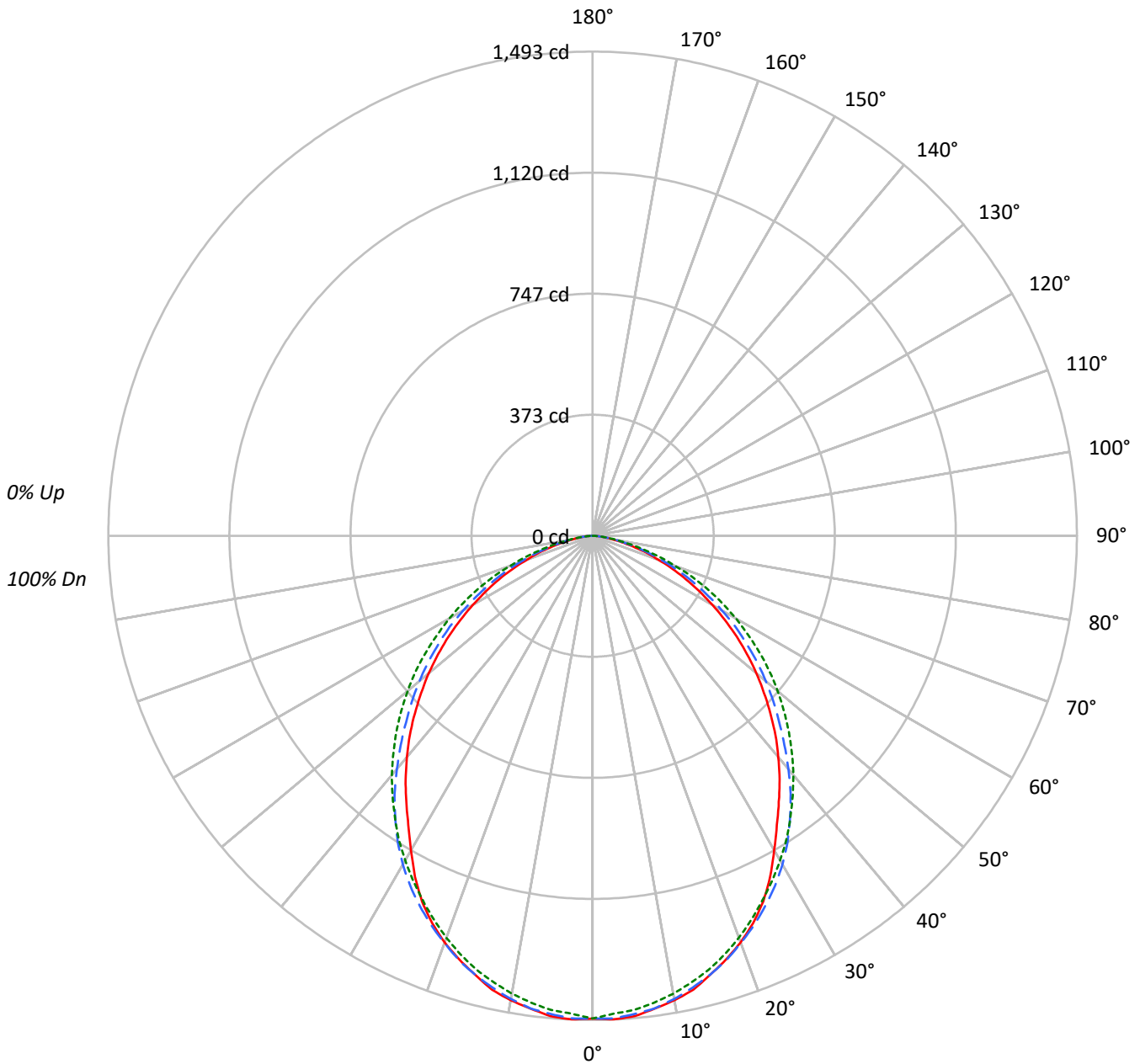
Lumens per Lamp: N/A
Luminaire Lumens: 3442.0 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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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CATALOG NUMBER: FUSL-12-2-LD4-2HI-40-UNV-80-94-EDD-90

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°	8012	8012	8012
5°	8033	7999	7931
10°	7948	7926	7835
15°	7807	7807	7718
20°	7641	7651	7553
25°	7390	7481	7362
30°	6958	7271	7182
35°	6575	6970	6981
40°	6256	6593	6766
45°	5898	6194	6511
50°	5521	5837	6234
55°	5092	5430	5897
60°	4585	4956	5484
65°	4050	4406	4988
70°	3375	3753	4239
75°	2651	2996	3319
80°	1897	2111	2340
85°	1235	1235	1167



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.2	4.1
10°-20°	393.7	11.4
20°-30°	575.4	16.7
30°-40°	653.1	19.0
40°-50°	630.5	18.3
50°-60°	520.1	15.1
60°-70°	346.3	10.1
70°-80°	155.0	4.5
80°-90°	27.7	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°	1109.3	32.2
0°-40°	1762.4	51.2
0°-60°	2912.9	84.6
0°-90°	3442.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3442.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1489	1489	1489	1489	1489	
5°	1487	1486	1481	1473	1468	141
15°	1401	1404	1401	1395	1385	395
25°	1244	1254	1260	1251	1240	570
35°	1001	1014	1061	1066	1062	627
45°	775	788	814	851	856	598
55°	543	552	579	611	628	484
65°	318	326	346	371	392	315
75°	128	134	144	151	160	139
85°	20	20	20	19	19	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1488.6	1488.6	1488.6	1488.6	1488.6
2.5°	1492.6	1493.2	1489.7	1480.6	1474.9
5°	1486.9	1486.3	1480.6	1472.6	1468.0
7.5°	1470.3	1471.4	1469.7	1458.3	1452.0
10°	1454.3	1454.8	1450.3	1441.1	1433.7
12.5°	1433.7	1433.1	1426.8	1422.2	1410.2
15°	1401.1	1404.5	1401.1	1394.8	1385.1
17.5°	1369.6	1369.6	1371.9	1361.0	1353.6
20°	1334.2	1335.9	1335.9	1327.3	1318.7
22.5°	1293.0	1298.1	1299.9	1290.7	1280.4
25°	1244.4	1254.1	1259.8	1250.7	1239.8
27.5°	1185.5	1200.4	1217.5	1210.6	1198.6
30°	1119.7	1141.5	1170.0	1164.3	1155.7
32.5°	1057.4	1079.1	1118.6	1116.3	1111.7
35°	1000.8	1014.5	1060.8	1066.5	1062.5
37.5°	947.0	959.6	1003.1	1016.2	1012.8
40°	890.4	904.1	938.4	961.9	963.0
42.5°	834.4	847.5	875.5	909.3	909.3
45°	774.9	788.0	813.8	850.9	855.5
47.5°	716.6	730.3	755.4	792.6	800.0
50°	659.4	671.9	697.1	733.1	744.6
52.5°	599.9	613.6	638.2	671.4	688.0
55°	542.7	551.9	578.7	610.8	628.5
57.5°	483.2	491.8	522.1	549.6	567.9
60°	426.0	436.9	460.4	488.4	509.5
62.5°	371.1	382.6	402.6	427.2	451.2
65°	318.0	326.5	346.0	370.6	391.7
67.5°	266.5	273.9	293.4	310.5	332.8
70°	214.5	224.2	238.5	255.1	269.4
72.5°	172.7	176.7	188.7	200.7	215.6
75°	127.5	134.4	144.1	151.0	159.6
77.5°	91.5	95.5	101.2	106.9	114.9
80°	61.2	62.9	68.1	69.2	75.5
82.5°	37.2	38.3	39.5	40.0	42.3
85°	20.0	20.0	20.0	18.9	18.9
87.5°	11.4	11.4	9.7	8.0	5.7
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)