

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: P554994

Luminaire Tested: **FUSL-12-2-LD4-2LO-40-UNV-80-85-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: P554994
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-LD4-2LO-40-UNV-80-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

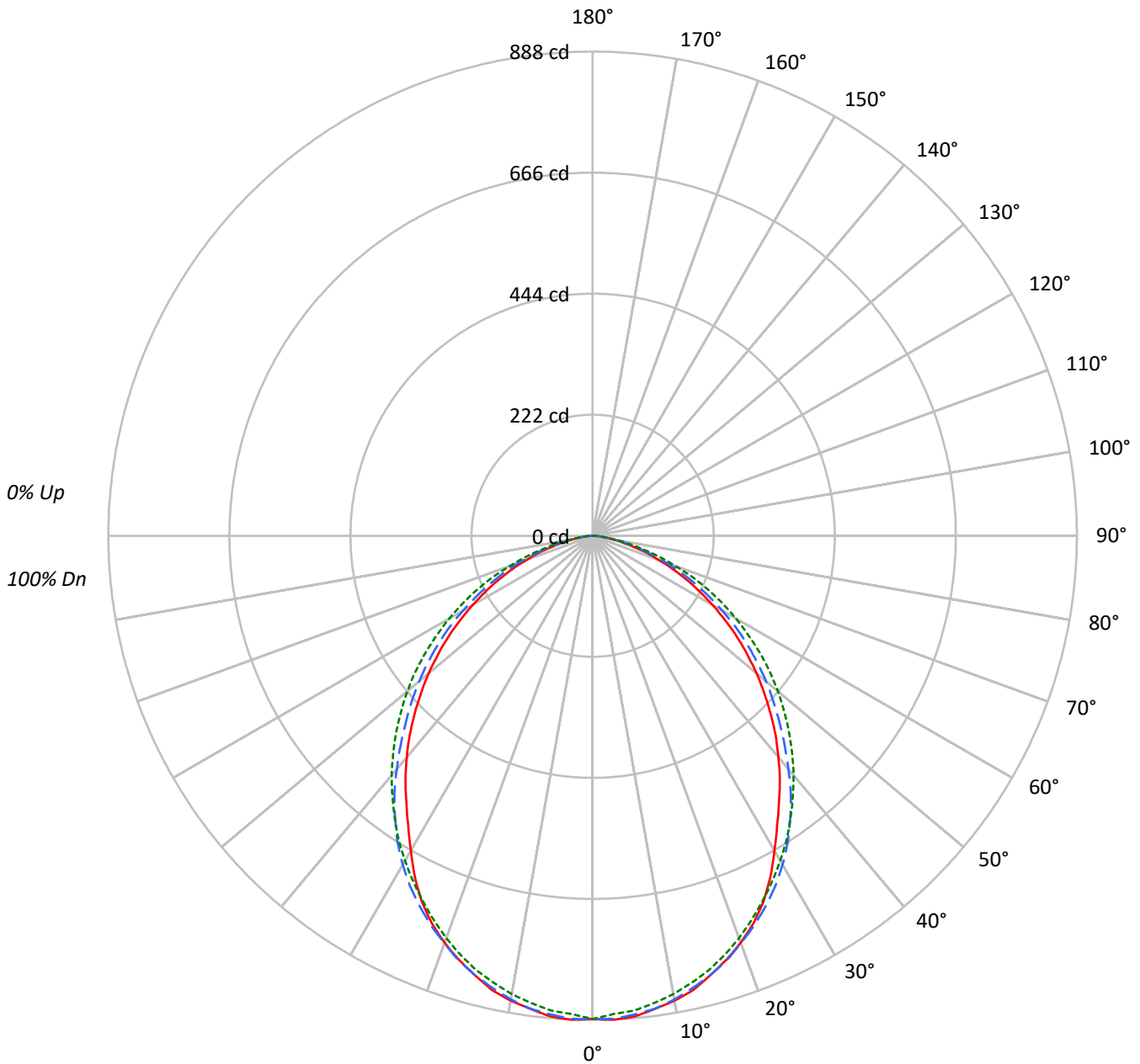
Lumens per Lamp: N/A
Luminaire Lumens: 2049.0 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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°	4769	4769	4769
5°	4782	4762	4721
10°	4731	4718	4664
15°	4647	4647	4594
20°	4549	4554	4496
25°	4399	4454	4383
30°	4143	4328	4276
35°	3914	4149	4156
40°	3724	3925	4028
45°	3511	3687	3876
50°	3286	3475	3711
55°	3032	3232	3510
60°	2730	2949	3265
65°	2411	2623	2970
70°	2009	2234	2522
75°	1578	1784	1975
80°	1128	1255	1392
85°	735	735	692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.4	4.1
10°-20°	234.4	11.4
20°-30°	342.5	16.7
30°-40°	388.8	19.0
40°-50°	375.3	18.3
50°-60°	309.6	15.1
60°-70°	206.2	10.1
70°-80°	92.3	4.5
80°-90°	16.5	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°	660.3	32.2
0°-40°	1049.1	51.2
0°-60°	1734.0	84.6
0°-90°	2049.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2049.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	886	886	886	886	886	
5°	885	885	881	877	874	84
15°	834	836	834	830	824	235
25°	741	747	750	744	738	339
35°	596	604	632	635	632	373
45°	461	469	484	507	509	356
55°	323	328	344	364	374	288
65°	189	194	206	221	233	188
75°	76	80	86	90	95	83
85°	12	12	12	11	11	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	886.1	886.1	886.1	886.1	886.1
2.5°	888.5	888.9	886.8	881.4	878.0
5°	885.1	884.8	881.4	876.6	873.9
7.5°	875.2	875.9	874.9	868.1	864.4
10°	865.7	866.1	863.3	857.9	853.5
12.5°	853.5	853.1	849.4	846.6	839.5
15°	834.1	836.1	834.1	830.3	824.5
17.5°	815.3	815.3	816.7	810.2	805.8
20°	794.2	795.2	795.2	790.1	785.0
22.5°	769.7	772.8	773.8	768.4	762.2
25°	740.8	746.6	750.0	744.5	738.1
27.5°	705.7	714.6	724.8	720.7	713.5
30°	666.6	679.5	696.5	693.1	688.0
32.5°	629.5	642.4	665.9	664.5	661.8
35°	595.8	603.9	631.5	634.9	632.5
37.5°	563.8	571.2	597.1	604.9	602.9
40°	530.0	538.2	558.6	572.6	573.3
42.5°	496.7	504.5	521.2	541.3	541.3
45°	461.3	469.1	484.4	506.6	509.3
47.5°	426.6	434.7	449.7	471.8	476.3
50°	392.5	400.0	415.0	436.4	443.2
52.5°	357.1	365.3	379.9	399.7	409.5
55°	323.1	328.5	344.5	363.6	374.1
57.5°	287.7	292.8	310.8	327.2	338.0
60°	253.6	260.1	274.0	290.7	303.3
62.5°	220.9	227.7	239.7	254.3	268.6
65°	189.3	194.4	206.0	220.6	233.2
67.5°	158.6	163.1	174.6	184.9	198.1
70°	127.7	133.4	142.0	151.8	160.3
72.5°	102.8	105.2	112.3	119.5	128.3
75°	75.9	80.0	85.8	89.9	95.0
77.5°	54.5	56.9	60.3	63.7	68.4
80°	36.4	37.4	40.5	41.2	44.9
82.5°	22.1	22.8	23.5	23.8	25.2
85°	11.9	11.9	11.9	11.2	11.2
87.5°	6.8	6.8	5.8	4.8	3.4
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)