

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: P554481

Luminaire Tested: **FUSL-12-2-LD4-1STD-40-UNV-80-84-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: P554481
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-LD4-1STD-40-UNV-80-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

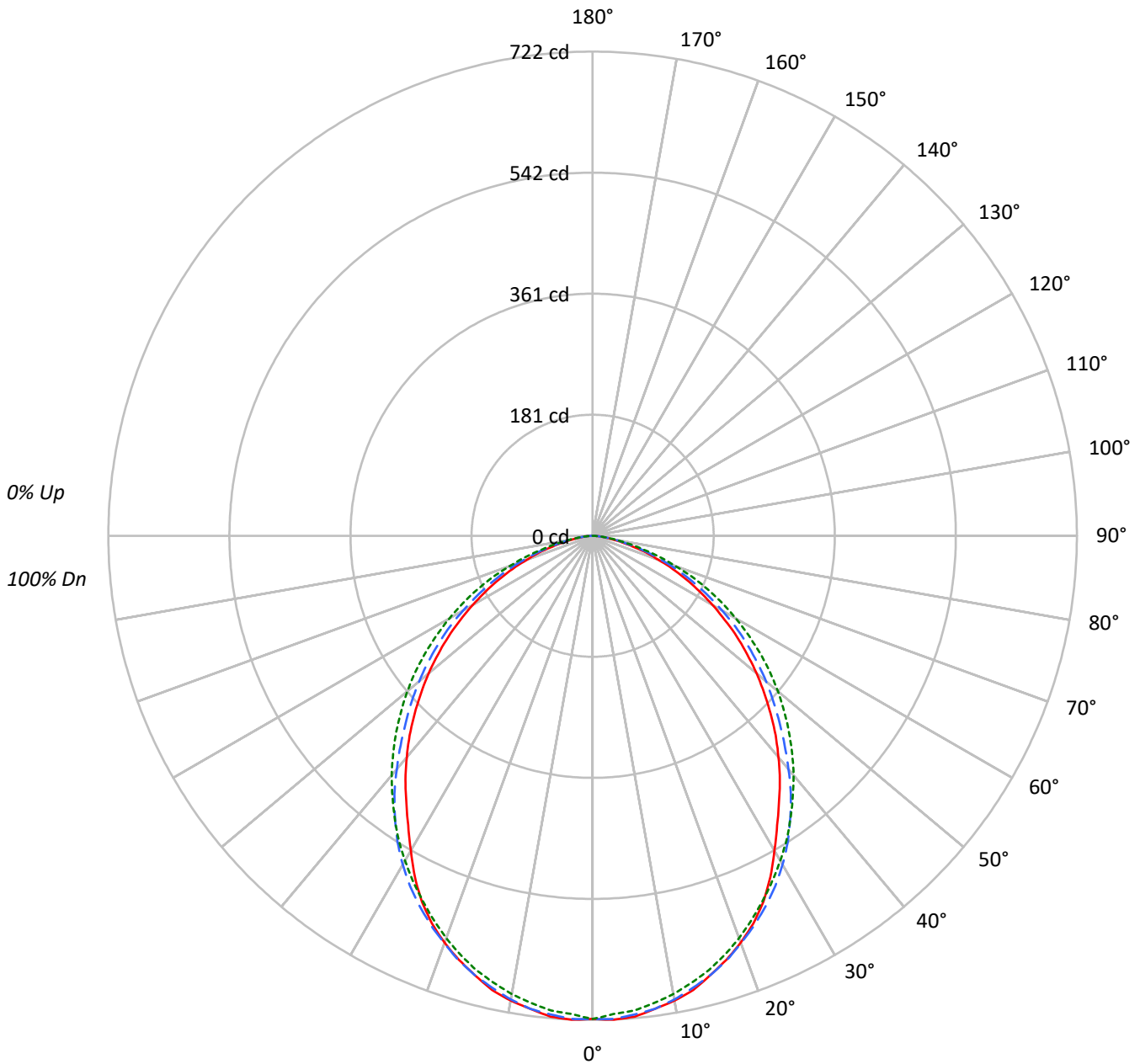
Lumens per Lamp: N/A
Luminaire Lumens: 1666.0 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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°	3878	3878	3878
5°	3888	3871	3838
10°	3847	3836	3792
15°	3779	3779	3735
20°	3699	3703	3656
25°	3577	3621	3564
30°	3368	3519	3476
35°	3183	3374	3379
40°	3028	3191	3275
45°	2855	2998	3152
50°	2672	2825	3018
55°	2465	2628	2854
60°	2220	2398	2654
65°	1960	2133	2415
70°	1633	1816	2052
75°	1283	1451	1605
80°	917	1020	1131
85°	599	599	562



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.8	4.1
10°-20°	190.6	11.4
20°-30°	278.5	16.7
30°-40°	316.1	19.0
40°-50°	305.2	18.3
50°-60°	251.7	15.1
60°-70°	167.7	10.1
70°-80°	75.0	4.5
80°-90°	13.4	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°	536.9	32.2
0°-40°	853.0	51.2
0°-60°	1409.9	84.6
0°-90°	1666.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1666.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	720	720	720	720	720	
5°	720	719	717	713	710	68
15°	678	680	678	675	670	191
25°	602	607	610	605	600	276
35°	484	491	514	516	514	304
45°	375	381	394	412	414	289
55°	263	267	280	296	304	234
65°	154	158	168	179	190	153
75°	62	65	70	73	77	67
85°	10	10	10	9	9	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	720.5	720.5	720.5	720.5	720.5
2.5°	722.4	722.7	721.1	716.6	713.9
5°	719.7	719.4	716.6	712.8	710.5
7.5°	711.6	712.2	711.4	705.8	702.8
10°	703.9	704.2	702.0	697.5	693.9
12.5°	693.9	693.7	690.6	688.4	682.6
15°	678.2	679.8	678.2	675.1	670.4
17.5°	662.9	662.9	664.0	658.8	655.2
20°	645.8	646.6	646.6	642.4	638.3
22.5°	625.8	628.3	629.2	624.7	619.7
25°	602.3	607.0	609.8	605.4	600.1
27.5°	573.8	581.0	589.3	586.0	580.2
30°	542.0	552.5	566.3	563.6	559.4
32.5°	511.8	522.3	541.4	540.3	538.1
35°	484.4	491.0	513.5	516.2	514.3
37.5°	458.4	464.5	485.5	491.9	490.2
40°	431.0	437.6	454.2	465.6	466.1
42.5°	403.8	410.2	423.8	440.1	440.1
45°	375.1	381.4	393.9	411.9	414.1
47.5°	346.8	353.5	365.6	383.6	387.2
50°	319.1	325.2	337.4	354.9	360.4
52.5°	290.4	297.0	308.9	325.0	333.0
55°	262.7	267.1	280.1	295.6	304.2
57.5°	233.9	238.0	252.7	266.0	274.9
60°	206.2	211.5	222.8	236.4	246.6
62.5°	179.6	185.2	194.9	206.8	218.4
65°	153.9	158.1	167.5	179.4	189.6
67.5°	129.0	132.6	142.0	150.3	161.1
70°	103.8	108.5	115.4	123.5	130.4
72.5°	83.6	85.5	91.3	97.2	104.4
75°	61.7	65.0	69.8	73.1	77.2
77.5°	44.3	46.2	49.0	51.8	55.6
80°	29.6	30.4	32.9	33.5	36.5
82.5°	18.0	18.5	19.1	19.4	20.5
85°	9.7	9.7	9.7	9.1	9.1
87.5°	5.5	5.5	4.7	3.9	2.8
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)