

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: P554496

Luminaire Tested: **FUSL-12-2-LD4-1STD-40-UNV-81-84-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: P554496
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-81-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

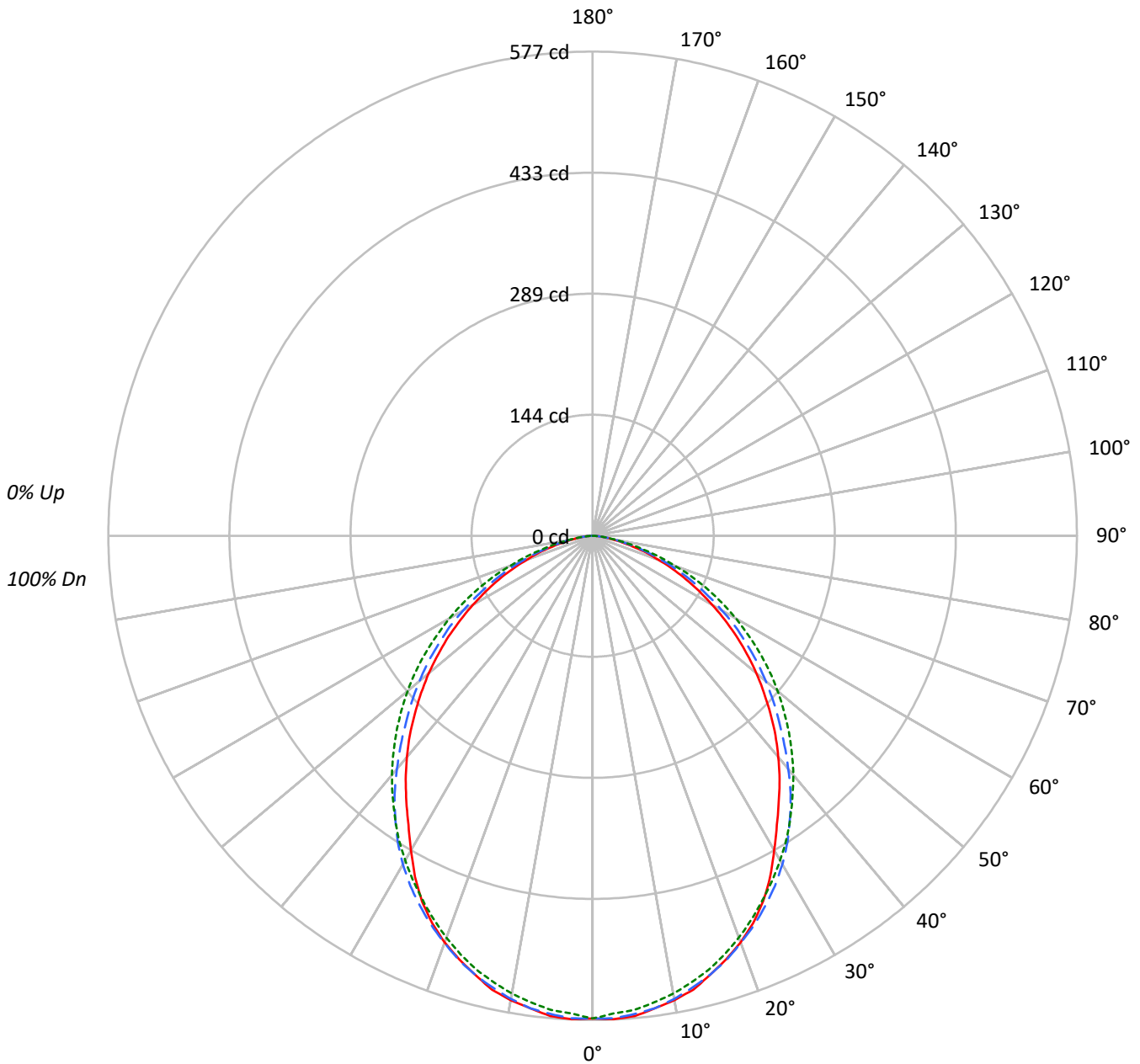
Lumens per Lamp: N/A
Luminaire Lumens: 1330.0 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	3096	3096	3096
5°	3104	3091	3064
10°	3071	3063	3028
15°	3017	3017	2982
20°	2952	2956	2919
25°	2855	2891	2845
30°	2689	2810	2775
35°	2541	2693	2698
40°	2418	2547	2614
45°	2279	2393	2516
50°	2133	2256	2409
55°	1968	2098	2278
60°	1772	1915	2119
65°	1565	1703	1928
70°	1304	1449	1638
75°	1025	1158	1283
80°	731	815	905
85°	475	475	451



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.2	4.1
10°-20°	152.1	11.4
20°-30°	222.3	16.7
30°-40°	252.4	19.0
40°-50°	243.6	18.3
50°-60°	201.0	15.1
60°-70°	133.8	10.1
70°-80°	59.9	4.5
80°-90°	10.7	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°	428.6	32.2
0°-40°	681.0	51.2
0°-60°	1125.6	84.6
0°-90°	1330.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1330.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	575	575	575	575	575	
5°	574	574	572	569	567	54
15°	541	543	541	539	535	153
25°	481	485	487	483	479	220
35°	387	392	410	412	411	242
45°	299	304	314	329	331	231
55°	210	213	224	236	243	187
65°	123	126	134	143	151	122
75°	49	52	56	58	62	54
85°	8	8	8	7	7	10
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	575.2	575.2	575.2	575.2	575.2
2.5°	576.7	577.0	575.6	572.1	569.9
5°	574.5	574.3	572.1	569.0	567.2
7.5°	568.1	568.6	567.9	563.5	561.0
10°	561.9	562.2	560.4	556.8	554.0
12.5°	554.0	553.8	551.3	549.6	544.9
15°	541.4	542.7	541.4	539.0	535.2
17.5°	529.2	529.2	530.1	525.9	523.0
20°	515.5	516.2	516.2	512.9	509.6
22.5°	499.6	501.6	502.3	498.7	494.8
25°	480.8	484.6	486.8	483.3	479.1
27.5°	458.1	463.8	470.4	467.8	463.2
30°	432.7	441.1	452.1	449.9	446.6
32.5°	408.6	417.0	432.2	431.3	429.6
35°	386.7	392.0	409.9	412.1	410.6
37.5°	365.9	370.8	387.6	392.7	391.3
40°	344.1	349.4	362.6	371.7	372.1
42.5°	322.4	327.5	338.3	351.3	351.3
45°	299.4	304.5	314.4	328.8	330.6
47.5°	276.9	282.2	291.9	306.3	309.1
50°	254.8	259.6	269.4	283.3	287.7
52.5°	231.8	237.1	246.6	259.4	265.8
55°	209.7	213.2	223.6	236.0	242.8
57.5°	186.7	190.0	201.7	212.4	219.4
60°	164.6	168.8	177.9	188.7	196.9
62.5°	143.4	147.8	155.6	165.1	174.3
65°	122.9	126.2	133.7	143.2	151.4
67.5°	103.0	105.8	113.4	120.0	128.6
70°	82.9	86.6	92.1	98.6	104.1
72.5°	66.7	68.3	72.9	77.6	83.3
75°	49.3	51.9	55.7	58.3	61.7
77.5°	35.4	36.9	39.1	41.3	44.4
80°	23.6	24.3	26.3	26.7	29.2
82.5°	14.4	14.8	15.2	15.5	16.4
85°	7.7	7.7	7.7	7.3	7.3
87.5°	4.4	4.4	3.8	3.1	2.2
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)