

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: P553889

Luminaire Tested: **FUSL-12-2-LD4-1HI-30-UNV-93-84-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: P553889
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-LD4-1HI-30-UNV-93-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

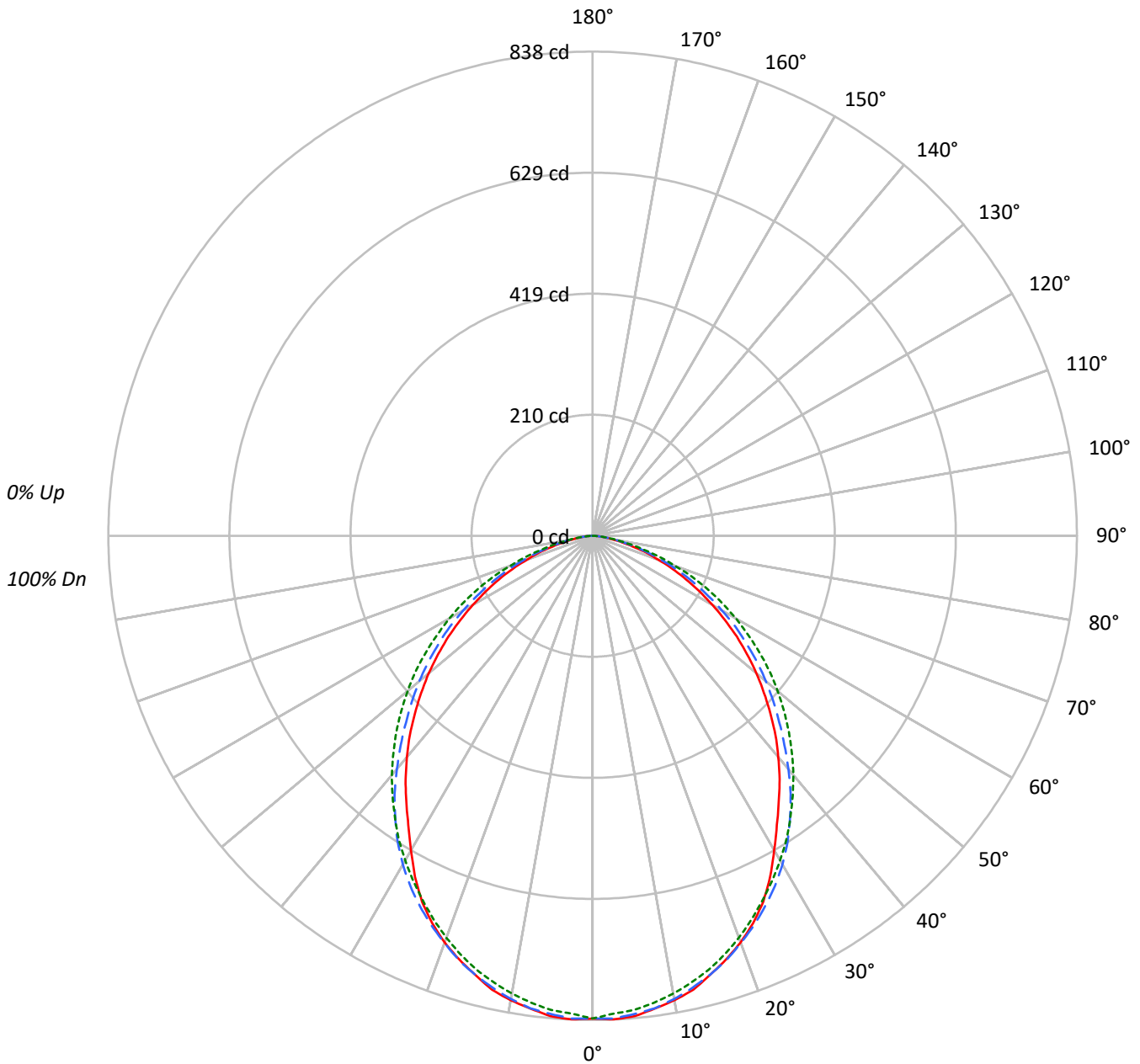
Lumens per Lamp: N/A
Luminaire Lumens: 1932.0 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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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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°	4497	4497	4497
5°	4509	4489	4452
10°	4461	4448	4398
15°	4382	4382	4332
20°	4289	4294	4239
25°	4148	4199	4132
30°	3906	4081	4031
35°	3690	3912	3918
40°	3511	3700	3797
45°	3310	3477	3655
50°	3099	3276	3499
55°	2858	3048	3310
60°	2574	2781	3078
65°	2273	2473	2800
70°	1895	2107	2379
75°	1489	1682	1863
80°	1063	1184	1314
85°	692	692	655



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.7	4.1
10°-20°	221.0	11.4
20°-30°	323.0	16.7
30°-40°	366.6	19.0
40°-50°	353.9	18.3
50°-60°	291.9	15.1
60°-70°	194.4	10.1
70°-80°	87.0	4.5
80°-90°	15.6	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°	622.6	32.2
0°-40°	989.2	51.2
0°-60°	1635.0	84.6
0°-90°	1932.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1932.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	836	836	836	836	836	
5°	835	834	831	827	824	79
15°	786	788	786	783	777	222
25°	698	704	707	702	696	320
35°	562	569	595	599	596	352
45°	435	442	457	478	480	336
55°	305	310	325	343	353	272
65°	178	183	194	208	220	177
75°	72	75	81	85	90	78
85°	11	11	11	11	11	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	835.5	835.5	835.5	835.5	835.5
2.5°	837.8	838.1	836.2	831.0	827.8
5°	834.6	834.3	831.0	826.6	824.0
7.5°	825.3	825.9	824.9	818.5	815.0
10°	816.3	816.6	814.0	808.9	804.7
12.5°	804.7	804.4	800.9	798.3	791.6
15°	786.4	788.4	786.4	782.9	777.4
17.5°	768.8	768.8	770.1	764.0	759.8
20°	748.9	749.8	749.8	745.0	740.2
22.5°	725.8	728.7	729.6	724.5	718.7
25°	698.5	703.9	707.1	702.0	695.9
27.5°	665.4	673.8	683.4	679.5	672.8
30°	628.5	640.7	656.7	653.5	648.7
32.5°	593.5	605.7	627.9	626.6	624.0
35°	561.7	569.4	595.4	598.6	596.4
37.5°	531.6	538.6	563.0	570.4	568.5
40°	499.8	507.5	526.7	539.9	540.5
42.5°	468.3	475.7	491.4	510.4	510.4
45°	434.9	442.3	456.8	477.6	480.2
47.5°	402.2	409.9	424.0	444.9	449.1
50°	370.1	377.2	391.3	411.5	417.9
52.5°	336.7	344.4	358.2	376.8	386.2
55°	304.6	309.8	324.8	342.8	352.8
57.5°	271.2	276.1	293.1	308.5	318.7
60°	239.1	245.2	258.4	274.1	286.0
62.5°	208.3	214.7	226.0	239.8	253.3
65°	178.5	183.3	194.2	208.0	219.9
67.5°	149.6	153.8	164.7	174.3	186.8
70°	120.4	125.8	133.9	143.2	151.2
72.5°	96.9	99.2	105.9	112.7	121.0
75°	71.6	75.4	80.9	84.7	89.6
77.5°	51.4	53.6	56.8	60.0	64.5
80°	34.3	35.3	38.2	38.8	42.4
82.5°	20.9	21.5	22.1	22.5	23.8
85°	11.2	11.2	11.2	10.6	10.6
87.5°	6.4	6.4	5.5	4.5	3.2
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)