

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: P555033

Luminaire Tested: **FUSL-12-2-LD4-2LO-40-UNV-82-88-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: P555033
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-82-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

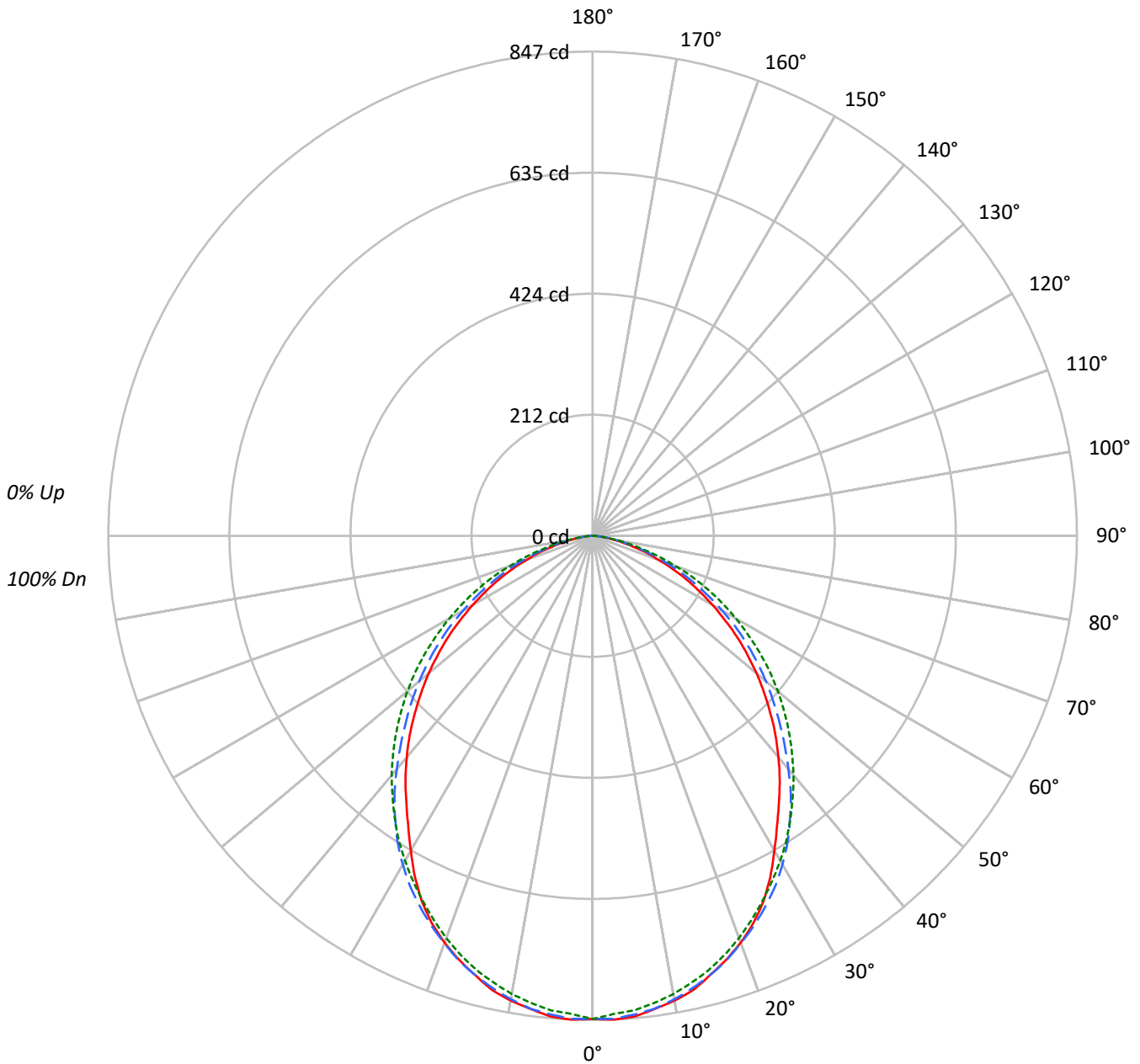
Lumens per Lamp: N/A
Luminaire Lumens: 1954.0 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	4548	4548	4548
5°	4560	4541	4502
10°	4512	4499	4448
15°	4432	4432	4381
20°	4338	4344	4288
25°	4195	4247	4179
30°	3951	4128	4077
35°	3733	3957	3963
40°	3551	3743	3841
45°	3348	3516	3697
50°	3134	3313	3539
55°	2891	3082	3348
60°	2604	2813	3114
65°	2299	2501	2832
70°	1915	2131	2406
75°	1506	1701	1884
80°	1075	1196	1330
85°	704	704	661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.6	4.1
10°-20°	223.5	11.4
20°-30°	326.6	16.7
30°-40°	370.8	19.0
40°-50°	357.9	18.3
50°-60°	295.2	15.1
60°-70°	196.6	10.1
70°-80°	88.0	4.5
80°-90°	15.7	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°	629.7	32.2
0°-40°	1000.5	51.2
0°-60°	1653.7	84.6
0°-90°	1954.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1954.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	845	845	845	845	845	
5°	844	844	840	836	833	80
15°	795	797	795	792	786	224
25°	706	712	715	710	704	324
35°	568	576	602	606	603	356
45°	440	447	462	483	486	339
55°	308	313	328	347	357	275
65°	180	185	196	210	222	179
75°	72	76	82	86	91	79
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°	845.1	845.1	845.1	845.1	845.1
2.5°	847.3	847.7	845.7	840.5	837.3
5°	844.1	843.8	840.5	836.0	833.4
7.5°	834.7	835.3	834.3	827.8	824.3
10°	825.6	825.9	823.3	818.1	813.9
12.5°	813.9	813.6	810.0	807.4	800.6
15°	795.4	797.3	795.4	791.8	786.3
17.5°	777.5	777.5	778.8	772.7	768.4
20°	757.4	758.4	758.4	753.5	748.6
22.5°	734.0	736.9	737.9	732.7	726.9
25°	706.4	711.9	715.2	710.0	703.8
27.5°	673.0	681.4	691.2	687.3	680.5
30°	635.7	648.0	664.2	661.0	656.1
32.5°	600.3	612.6	635.0	633.7	631.1
35°	568.1	575.9	602.2	605.5	603.2
37.5°	537.6	544.8	569.4	576.9	574.9
40°	505.5	513.3	532.7	546.1	546.7
42.5°	473.7	481.1	497.0	516.2	516.2
45°	439.9	447.4	462.0	483.1	485.7
47.5°	406.8	414.6	428.9	450.0	454.2
50°	374.3	381.5	395.7	416.2	422.7
52.5°	340.6	348.3	362.3	381.1	390.5
55°	308.1	313.3	328.5	346.7	356.8
57.5°	274.3	279.2	296.4	312.0	322.4
60°	241.9	248.0	261.3	277.2	289.3
62.5°	210.7	217.2	228.6	242.5	256.1
65°	180.5	185.4	196.4	210.4	222.4
67.5°	151.3	155.5	166.5	176.3	188.9
70°	121.7	127.3	135.4	144.8	152.9
72.5°	98.0	100.3	107.1	114.0	122.4
75°	72.4	76.3	81.8	85.7	90.6
77.5°	51.9	54.2	57.5	60.7	65.3
80°	34.7	35.7	38.6	39.3	42.9
82.5°	21.1	21.8	22.4	22.7	24.0
85°	11.4	11.4	11.4	10.7	10.7
87.5°	6.5	6.5	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)