

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: P554053

Luminaire Tested: **FUSL-12-2-LD4-1HI-50-UNV-81-86-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: P554053
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-50-UNV-81-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

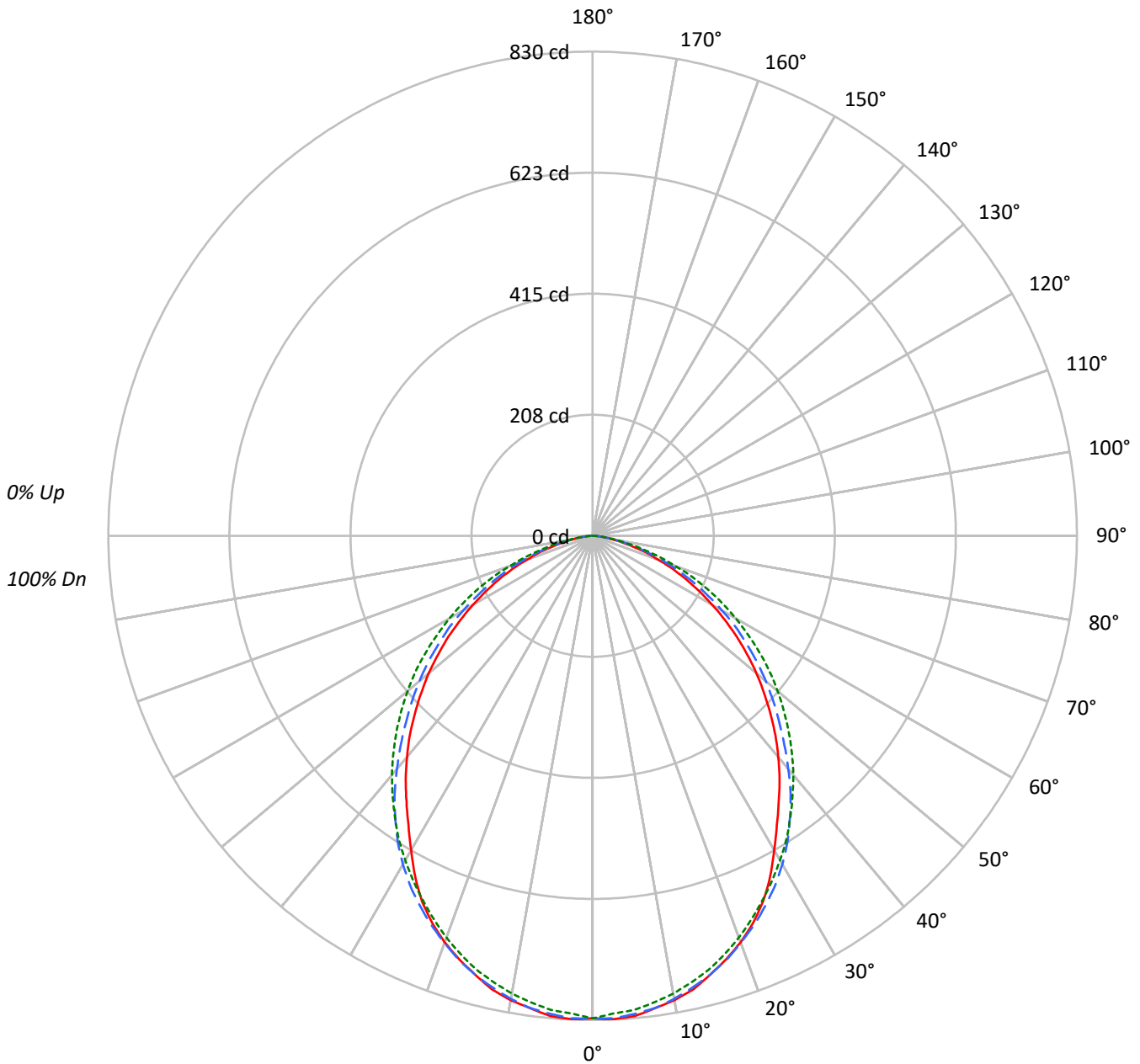
Lumens per Lamp: N/A
Luminaire Lumens: 1913.0 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	4452	4452	4452
5°	4465	4446	4408
10°	4417	4405	4354
15°	4339	4339	4289
20°	4247	4253	4198
25°	4107	4158	4092
30°	3867	4041	3992
35°	3654	3874	3880
40°	3477	3665	3760
45°	3278	3443	3619
50°	3069	3244	3465
55°	2830	3018	3278
60°	2549	2754	3048
65°	2250	2449	2772
70°	1876	2085	2356
75°	1474	1666	1844
80°	1054	1172	1302
85°	685	685	648



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.9	4.1
10°-20°	218.8	11.4
20°-30°	319.8	16.7
30°-40°	363.0	19.0
40°-50°	350.4	18.3
50°-60°	289.1	15.1
60°-70°	192.5	10.1
70°-80°	86.1	4.5
80°-90°	15.4	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°	616.5	32.2
0°-40°	979.5	51.2
0°-60°	1619.0	84.6
0°-90°	1913.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1913.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	827	827	827	827	827	
5°	826	826	823	818	816	78
15°	779	781	779	775	770	220
25°	692	697	700	695	689	317
35°	556	564	590	593	590	348
45°	431	438	452	473	476	332
55°	302	307	322	339	349	269
65°	177	182	192	206	218	175
75°	71	75	80	84	89	78
85°	11	11	11	10	10	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	827.3	827.3	827.3	827.3	827.3
2.5°	829.5	829.9	828.0	822.9	819.7
5°	826.4	826.1	822.9	818.4	815.9
7.5°	817.2	817.8	816.8	810.5	807.0
10°	808.3	808.6	806.0	800.9	796.8
12.5°	796.8	796.5	793.0	790.5	783.8
15°	778.7	780.6	778.7	775.2	769.8
17.5°	761.2	761.2	762.5	756.4	752.3
20°	741.5	742.5	742.5	737.7	732.9
22.5°	718.6	721.5	722.4	717.4	711.6
25°	691.6	697.0	700.2	695.1	689.1
27.5°	658.9	667.1	676.7	672.9	666.2
30°	622.3	634.4	650.3	647.1	642.3
32.5°	587.7	599.8	621.7	620.4	617.9
35°	556.2	563.8	589.6	592.8	590.5
37.5°	526.3	533.3	557.5	564.8	562.9
40°	494.9	502.5	521.6	534.6	535.2
42.5°	463.7	471.0	486.6	505.4	505.4
45°	430.7	438.0	452.3	472.9	475.5
47.5°	398.2	405.9	419.9	440.5	444.7
50°	366.5	373.5	387.4	407.5	413.8
52.5°	333.4	341.0	354.7	373.1	382.4
55°	301.6	306.7	321.6	339.4	349.3
57.5°	268.6	273.3	290.2	305.4	315.6
60°	236.8	242.8	255.9	271.4	283.2
62.5°	206.3	212.6	223.8	237.4	250.8
65°	176.7	181.5	192.3	206.0	217.7
67.5°	148.1	152.2	163.0	172.6	185.0
70°	119.2	124.6	132.5	141.8	149.7
72.5°	96.0	98.2	104.9	111.6	119.8
75°	70.9	74.7	80.1	83.9	88.7
77.5°	50.9	53.1	56.3	59.4	63.9
80°	34.0	35.0	37.8	38.5	42.0
82.5°	20.7	21.3	21.9	22.2	23.5
85°	11.1	11.1	11.1	10.5	10.5
87.5°	6.4	6.4	5.4	4.4	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)