

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: P555320

Luminaire Tested: **FUSL-12-2-LD4-2STD-50-UNV-80-88-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: P555320
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-LD4-2STD-50-UNV-80-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

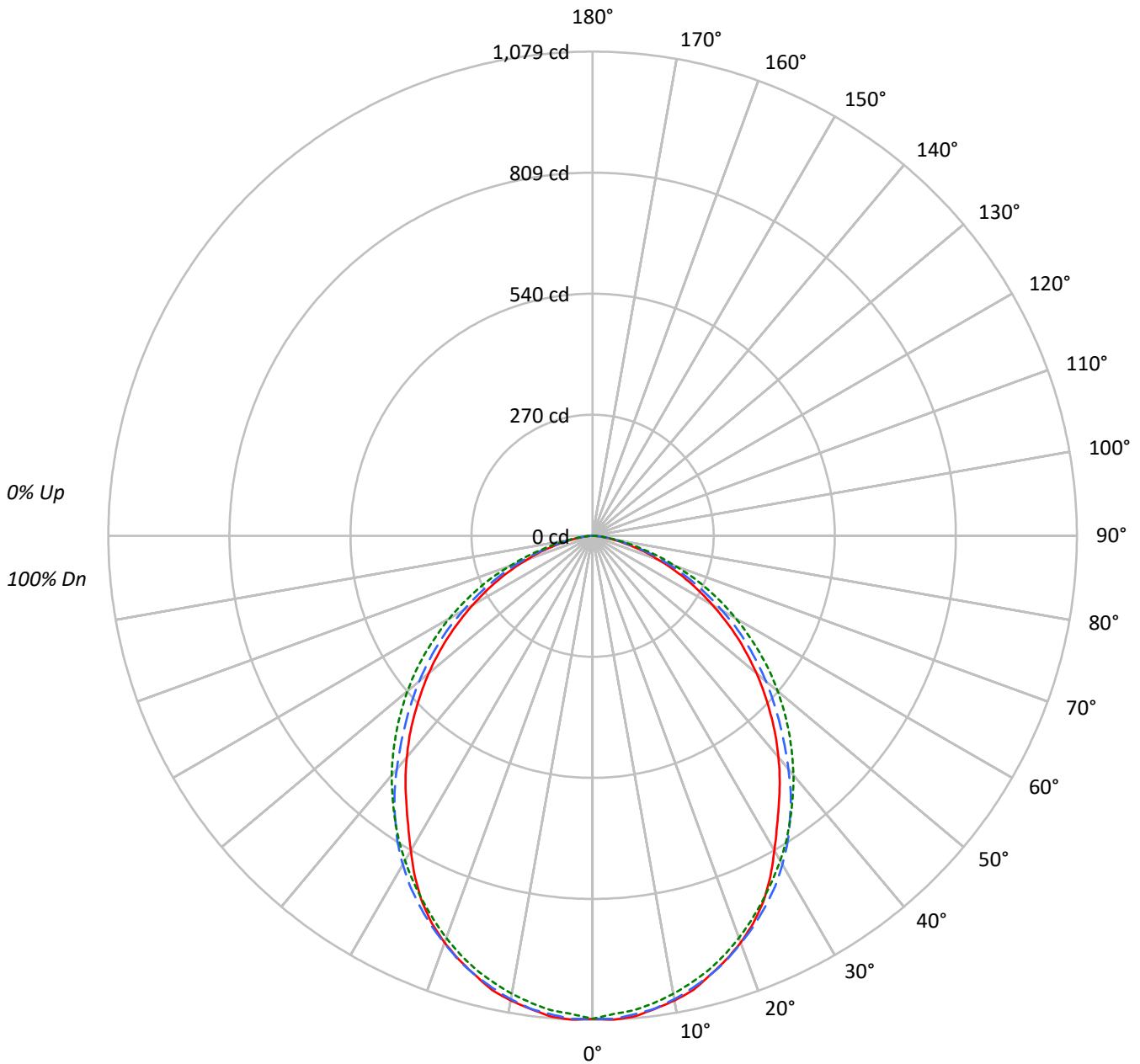
Lumens per Lamp: N/A
Luminaire Lumens: 2489.0 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	5793	5793	5793
5°	5809	5784	5735
10°	5747	5731	5666
15°	5645	5645	5581
20°	5526	5533	5462
25°	5343	5410	5324
30°	5032	5258	5194
35°	4755	5040	5048
40°	4524	4768	4893
45°	4265	4479	4708
50°	3992	4221	4508
55°	3682	3927	4265
60°	3316	3583	3967
65°	2928	3186	3608
70°	2441	2713	3065
75°	1917	2167	2400
80°	1370	1525	1692
85°	895	895	840



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.3	4.1
10°-20°	284.7	11.4
20°-30°	416.1	16.7
30°-40°	472.3	19.0
40°-50°	455.9	18.3
50°-60°	376.1	15.1
60°-70°	250.4	10.1
70°-80°	112.1	4.5
80°-90°	20.0	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°	802.1	32.2
0°-40°	1274.4	51.2
0°-60°	2106.4	84.6
0°-90°	2489.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2489.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1076	1076	1076	1076	1076	
5°	1075	1075	1071	1065	1062	102
15°	1013	1016	1013	1009	1002	286
25°	900	907	911	904	896	412
35°	724	734	767	771	768	453
45°	560	570	588	615	619	432
55°	392	399	418	442	454	350
65°	230	236	250	268	283	228
75°	92	97	104	109	115	101
85°	14	14	14	14	14	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1076.4	1076.4	1076.4	1076.4	1076.4
2.5°	1079.3	1079.7	1077.3	1070.6	1066.5
5°	1075.2	1074.8	1070.6	1064.8	1061.5
7.5°	1063.2	1064.0	1062.8	1054.5	1050.0
10°	1051.6	1052.0	1048.7	1042.1	1036.7
12.5°	1036.7	1036.3	1031.8	1028.5	1019.8
15°	1013.2	1015.6	1013.2	1008.6	1001.6
17.5°	990.4	990.4	992.1	984.2	978.8
20°	964.8	966.0	966.0	959.8	953.6
22.5°	935.0	938.7	940.0	933.3	925.9
25°	899.8	906.9	911.0	904.4	896.5
27.5°	857.3	868.0	880.4	875.5	866.8
30°	809.7	825.4	846.1	842.0	835.8
32.5°	764.6	780.3	808.9	807.2	803.9
35°	723.7	733.6	767.1	771.2	768.3
37.5°	684.8	693.9	725.3	734.8	732.4
40°	643.9	653.8	678.6	695.6	696.4
42.5°	603.3	612.9	633.1	657.5	657.5
45°	560.3	569.8	588.5	615.3	618.6
47.5°	518.2	528.1	546.3	573.2	578.5
50°	476.8	485.9	504.1	530.2	538.4
52.5°	433.8	443.7	461.5	485.5	497.5
55°	392.4	399.1	418.5	441.7	454.5
57.5°	349.4	355.6	377.6	397.4	410.6
60°	308.1	315.9	332.9	353.2	368.5
62.5°	268.4	276.7	291.1	308.9	326.3
65°	229.9	236.1	250.2	268.0	283.3
67.5°	192.7	198.1	212.1	224.5	240.7
70°	155.1	162.1	172.4	184.4	194.8
72.5°	124.9	127.8	136.5	145.2	155.9
75°	92.2	97.2	104.2	109.2	115.4
77.5°	66.2	69.1	73.2	77.3	83.1
80°	44.2	45.5	49.2	50.0	54.6
82.5°	26.9	27.7	28.5	28.9	30.6
85°	14.5	14.5	14.5	13.6	13.6
87.5°	8.3	8.3	7.0	5.8	4.1
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)