

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: P555220

Luminaire Tested: **FUSL-12-2-LD4-2STD-35-UNV-82-86-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: P555220
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-35-UNV-82-86-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

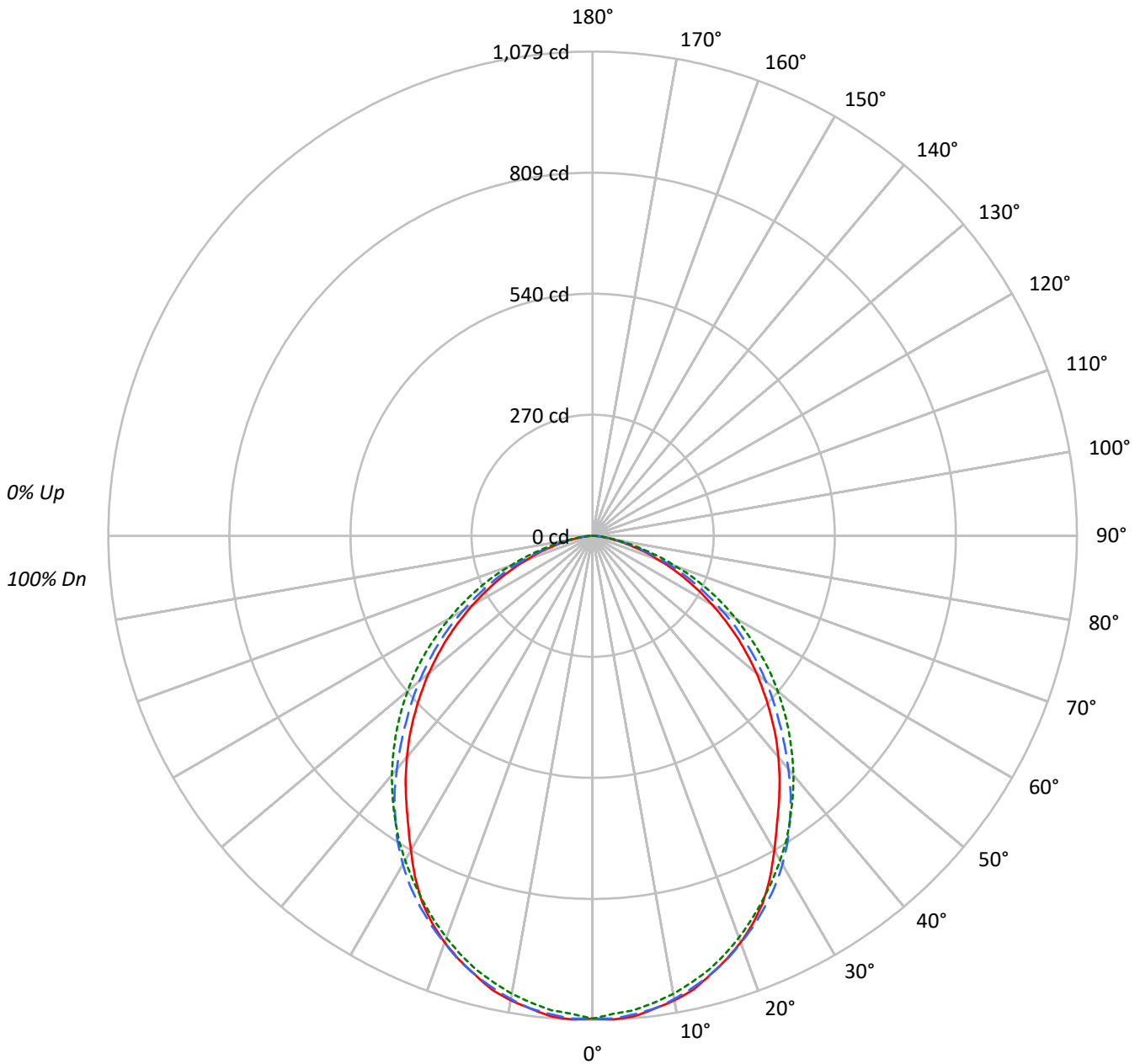
Lumens per Lamp: N/A
Luminaire Lumens: 2488.0 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
Input Voltage (V): NR
Input Current (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°	5791	5791	5791
5°	5807	5782	5733
10°	5745	5729	5663
15°	5643	5643	5578
20°	5523	5530	5459
25°	5342	5407	5322
30°	5030	5256	5192
35°	4753	5038	5046
40°	4522	4765	4891
45°	4263	4477	4707
50°	3990	4219	4506
55°	3681	3925	4263
60°	3315	3582	3964
65°	2926	3185	3606
70°	2439	2713	3064
75°	1917	2167	2398
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°	284.6	11.4
20°-30°	415.9	16.7
30°-40°	472.1	19.0
40°-50°	455.7	18.3
50°-60°	375.9	15.1
60°-70°	250.4	10.1
70°-80°	112.0	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°	801.8	32.2
0°-40°	1273.9	51.2
0°-60°	2105.6	84.6
0°-90°	2488.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2488.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1076	1076	1076	1076	1076	
5°	1075	1074	1070	1064	1061	102
15°	1013	1015	1013	1008	1001	286
25°	900	906	911	904	896	412
35°	723	733	767	771	768	453
45°	560	570	588	615	618	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°	1076.0	1076.0	1076.0	1076.0	1076.0
2.5°	1078.9	1079.3	1076.8	1070.2	1066.1
5°	1074.8	1074.3	1070.2	1064.4	1061.1
7.5°	1062.8	1063.6	1062.4	1054.1	1049.5
10°	1051.2	1051.6	1048.3	1041.7	1036.3
12.5°	1036.3	1035.9	1031.4	1028.0	1019.4
15°	1012.8	1015.2	1012.8	1008.2	1001.2
17.5°	990.0	990.0	991.7	983.8	978.4
20°	964.4	965.6	965.6	959.4	953.2
22.5°	934.6	938.3	939.6	933.0	925.5
25°	899.5	906.5	910.6	904.0	896.2
27.5°	856.9	867.7	880.1	875.1	866.4
30°	809.4	825.1	845.8	841.6	835.4
32.5°	764.3	780.0	808.5	806.9	803.6
35°	723.4	733.3	766.8	770.9	768.0
37.5°	684.5	693.6	725.0	734.6	732.1
40°	643.6	653.5	678.3	695.3	696.1
42.5°	603.1	612.6	632.9	657.3	657.3
45°	560.1	569.6	588.2	615.1	618.4
47.5°	517.9	527.9	546.1	572.9	578.3
50°	476.6	485.7	503.9	529.9	538.2
52.5°	433.6	443.5	461.3	485.3	497.3
55°	392.3	398.9	418.3	441.5	454.3
57.5°	349.3	355.5	377.4	397.2	410.5
60°	308.0	315.8	332.8	353.0	368.3
62.5°	268.3	276.5	291.0	308.8	326.1
65°	229.8	236.0	250.1	267.9	283.2
67.5°	192.6	198.0	212.1	224.5	240.6
70°	155.0	162.0	172.4	184.4	194.7
72.5°	124.8	127.7	136.4	145.1	155.8
75°	92.2	97.1	104.2	109.1	115.3
77.5°	66.1	69.0	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)