

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: P554963

Luminaire Tested: **FUSL-12-2-LD4-2LO-35-UNV-82-85-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: P554963
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-35-UNV-82-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

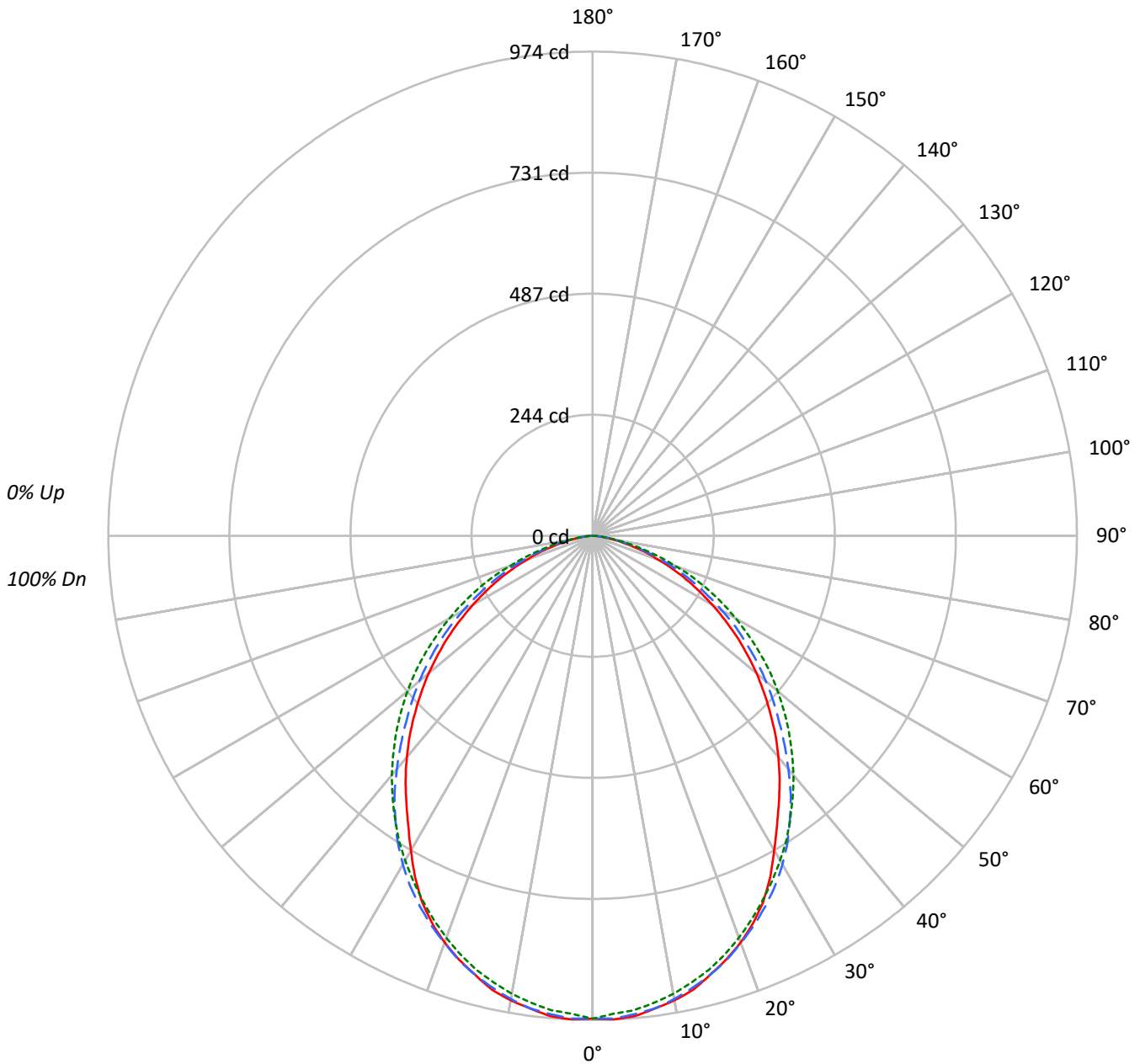
Lumens per Lamp: N/A
Luminaire Lumens: 2246.0 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	5227	5227	5227
5°	5242	5219	5175
10°	5186	5172	5112
15°	5094	5094	5036
20°	4986	4993	4928
25°	4822	4882	4804
30°	4540	4745	4687
35°	4290	4548	4555
40°	4082	4303	4415
45°	3848	4042	4249
50°	3603	3809	4068
55°	3323	3543	3848
60°	2992	3233	3579
65°	2642	2876	3255
70°	2201	2448	2766
75°	1730	1955	2165
80°	1237	1376	1528
85°	809	809	760



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.5	4.1
10°-20°	256.9	11.4
20°-30°	375.4	16.7
30°-40°	426.2	19.0
40°-50°	411.4	18.3
50°-60°	339.4	15.1
60°-70°	226.0	10.1
70°-80°	101.1	4.5
80°-90°	18.1	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°	723.8	32.2
0°-40°	1150.0	51.2
0°-60°	1900.8	84.6
0°-90°	2246.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2246.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	971	971	971	971	971	
5°	970	970	966	961	958	92
15°	914	916	914	910	904	258
25°	812	818	822	816	809	372
35°	653	662	692	696	693	409
45°	506	514	531	555	558	390
55°	354	360	378	398	410	316
65°	208	213	226	242	256	206
75°	83	88	94	98	104	91
85°	13	13	13	12	12	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	971.3	971.3	971.3	971.3	971.3
2.5°	973.9	974.3	972.1	966.1	962.4
5°	970.2	969.8	966.1	960.9	957.9
7.5°	959.4	960.1	959.0	951.6	947.5
10°	948.9	949.3	946.3	940.4	935.5
12.5°	935.5	935.1	931.0	928.1	920.2
15°	914.2	916.5	914.2	910.1	903.8
17.5°	893.7	893.7	895.2	888.1	883.3
20°	870.6	871.7	871.7	866.1	860.5
22.5°	843.7	847.1	848.2	842.2	835.5
25°	812.0	818.3	822.1	816.1	809.0
27.5°	773.6	783.3	794.5	790.0	782.1
30°	730.6	744.8	763.5	759.8	754.2
32.5°	690.0	704.2	729.9	728.4	725.4
35°	653.0	662.0	692.2	695.9	693.3
37.5°	618.0	626.2	654.5	663.1	660.9
40°	581.0	590.0	612.4	627.7	628.4
42.5°	544.4	553.0	571.3	593.3	593.3
45°	505.6	514.2	531.0	555.3	558.2
47.5°	467.6	476.5	492.9	517.2	522.1
50°	430.3	438.5	454.9	478.4	485.9
52.5°	391.4	400.4	416.4	438.1	448.9
55°	354.1	360.1	377.6	398.5	410.1
57.5°	315.3	320.9	340.7	358.6	370.5
60°	278.0	285.1	300.4	318.7	332.5
62.5°	242.2	249.6	262.7	278.8	294.4
65°	207.5	213.1	225.8	241.8	255.6
67.5°	173.9	178.7	191.4	202.6	217.2
70°	139.9	146.3	155.6	166.4	175.8
72.5°	112.7	115.3	123.1	131.0	140.7
75°	83.2	87.7	94.0	98.5	104.1
77.5°	59.7	62.3	66.0	69.8	75.0
80°	39.9	41.0	44.4	45.2	49.3
82.5°	24.3	25.0	25.7	26.1	27.6
85°	13.1	13.1	13.1	12.3	12.3
87.5°	7.5	7.5	6.3	5.2	3.7
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)