

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: P554965

Luminaire Tested: **FUSL-12-2-LD4-2LO-35-UNV-82-86-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: P554965
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-82-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

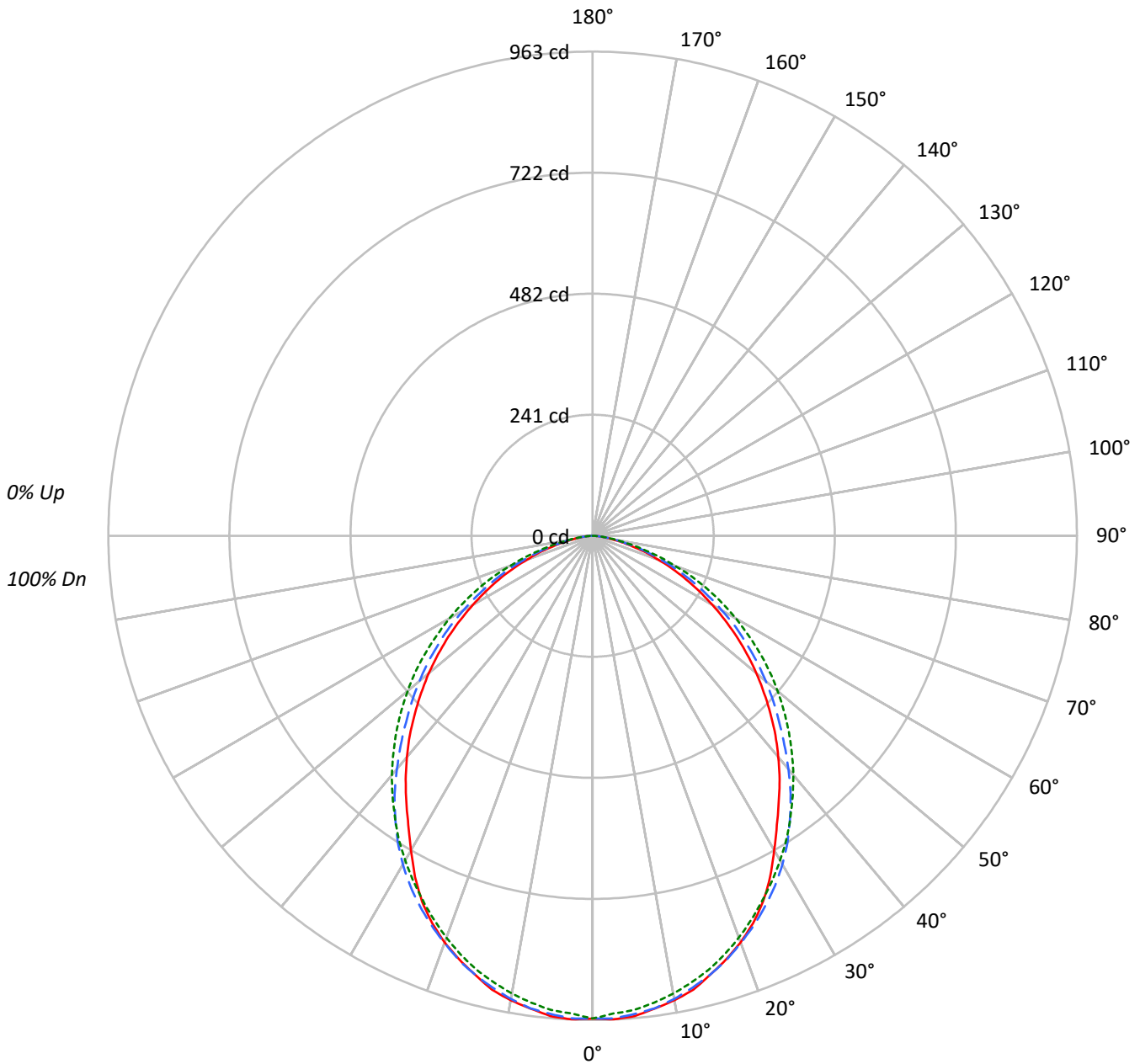
Lumens per Lamp: N/A
Luminaire Lumens: 2220.0 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	5167	5167	5167
5°	5181	5159	5115
10°	5126	5112	5053
15°	5035	5035	4977
20°	4928	4935	4871
25°	4766	4825	4748
30°	4488	4689	4632
35°	4241	4495	4503
40°	4035	4253	4364
45°	3804	3995	4200
50°	3561	3764	4021
55°	3284	3503	3804
60°	2958	3196	3537
65°	2612	2841	3218
70°	2176	2420	2733
75°	1711	1932	2140
80°	1224	1361	1509
85°	797	797	753



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.4	4.1
10°-20°	253.9	11.4
20°-30°	371.1	16.7
30°-40°	421.2	19.0
40°-50°	406.6	18.3
50°-60°	335.5	15.1
60°-70°	223.4	10.1
70°-80°	100.0	4.5
80°-90°	17.9	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°	715.4	32.2
0°-40°	1136.7	51.2
0°-60°	1878.8	84.6
0°-90°	2220.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2220.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	960	960	960	960	960	
5°	959	959	955	950	947	91
15°	904	906	904	900	893	255
25°	803	809	813	807	800	368
35°	646	654	684	688	685	404
45°	500	508	525	549	552	386
55°	350	356	373	394	405	312
65°	205	211	223	239	253	203
75°	82	87	93	97	103	90
85°	13	13	13	12	12	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	960.1	960.1	960.1	960.1	960.1
2.5°	962.7	963.0	960.8	954.9	951.2
5°	959.0	958.6	954.9	949.8	946.8
7.5°	948.3	949.0	947.9	940.5	936.5
10°	938.0	938.3	935.4	929.5	924.7
12.5°	924.7	924.3	920.3	917.3	909.6
15°	903.7	905.9	903.7	899.6	893.3
17.5°	883.4	883.4	884.8	877.8	873.0
20°	860.5	861.6	861.6	856.1	850.5
22.5°	833.9	837.3	838.4	832.5	825.8
25°	802.6	808.9	812.6	806.7	799.6
27.5°	764.6	774.2	785.3	780.8	773.1
30°	722.2	736.2	754.6	751.0	745.4
32.5°	682.0	696.0	721.5	720.0	717.0
35°	645.5	654.3	684.2	687.9	685.3
37.5°	610.8	618.9	646.9	655.4	653.2
40°	574.3	583.1	605.3	620.4	621.1
42.5°	538.1	546.6	564.7	586.5	586.5
45°	499.8	508.3	524.9	548.8	551.8
47.5°	462.2	471.0	487.2	511.2	516.0
50°	425.3	433.4	449.6	472.9	480.2
52.5°	386.9	395.8	411.6	433.0	443.7
55°	350.0	355.9	373.3	393.9	405.4
57.5°	311.7	317.2	336.8	354.5	366.3
60°	274.8	281.8	296.9	315.0	328.6
62.5°	239.4	246.8	259.7	275.5	291.0
65°	205.1	210.6	223.1	239.0	252.7
67.5°	171.9	176.7	189.2	200.3	214.7
70°	138.3	144.6	153.8	164.5	173.7
72.5°	111.4	114.0	121.7	129.5	139.1
75°	82.3	86.7	92.9	97.4	102.9
77.5°	59.0	61.6	65.3	69.0	74.1
80°	39.5	40.6	43.9	44.6	48.7
82.5°	24.0	24.7	25.5	25.8	27.3
85°	12.9	12.9	12.9	12.2	12.2
87.5°	7.4	7.4	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)