

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: P554931

Luminaire Tested: **FUSL-12-2-LD4-2LO-35-UNV-80-85-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: P554931
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-80-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC 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

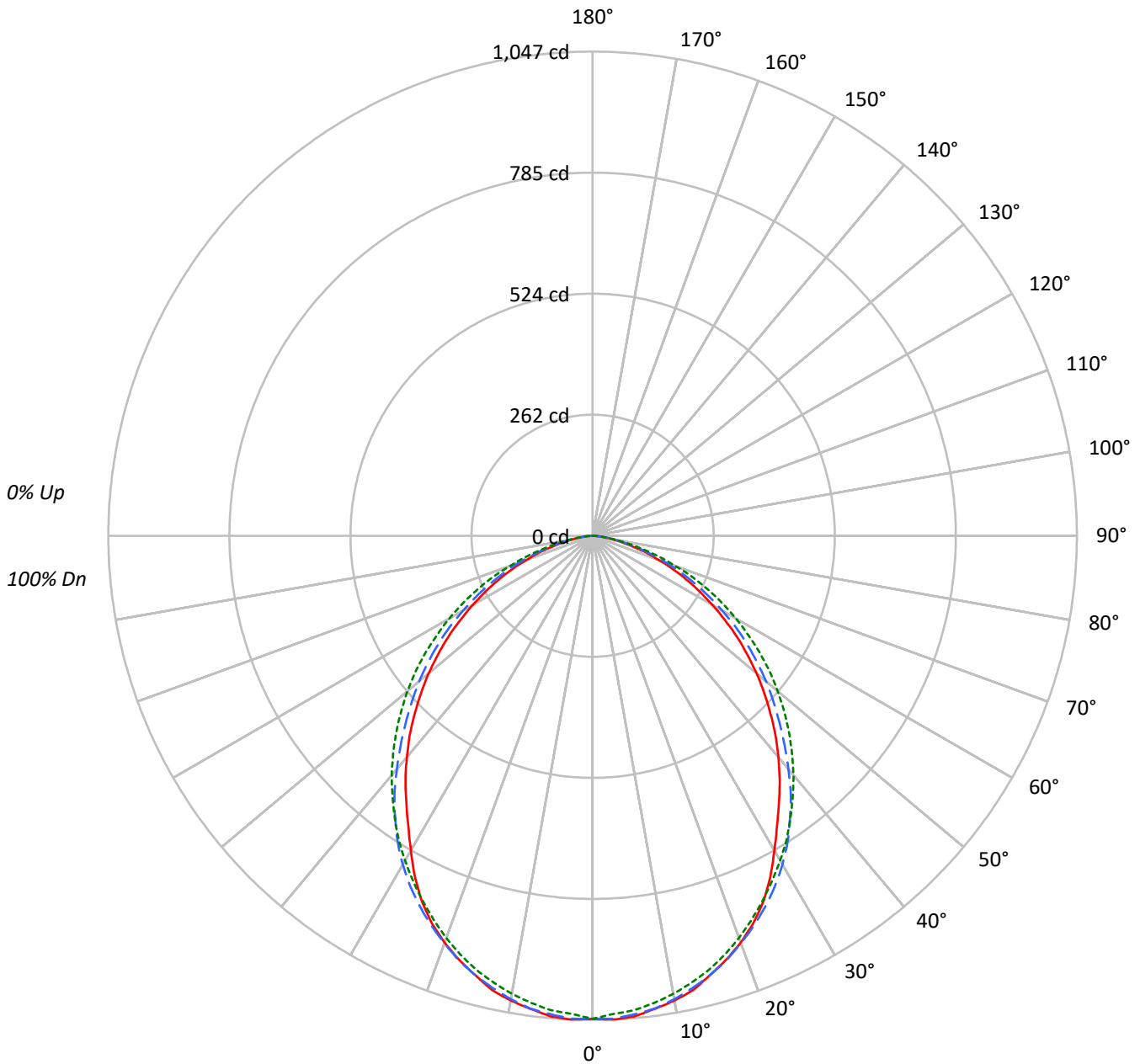
Lumens per Lamp: N/A
Luminaire Lumens: 2415.0 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (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°	5621	5621	5621
5°	5636	5612	5565
10°	5576	5561	5497
15°	5477	5477	5415
20°	5361	5368	5300
25°	5185	5249	5166
30°	4882	5102	5039
35°	4614	4890	4898
40°	4389	4626	4747
45°	4138	4346	4569
50°	3873	4095	4374
55°	3573	3810	4138
60°	3217	3477	3848
65°	2841	3091	3500
70°	2368	2633	2974
75°	1861	2102	2327
80°	1330	1478	1643
85°	865	865	815



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.3	4.1
10°-20°	276.3	11.4
20°-30°	403.7	16.7
30°-40°	458.2	19.0
40°-50°	442.4	18.3
50°-60°	364.9	15.1
60°-70°	243.0	10.1
70°-80°	108.7	4.5
80°-90°	19.4	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°	778.3	32.2
0°-40°	1236.5	51.2
0°-60°	2043.8	84.6
0°-90°	2415.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2415.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1044	1044	1044	1044	1044	
5°	1043	1043	1039	1033	1030	99
15°	983	985	983	979	972	277
25°	873	880	884	878	870	400
35°	702	712	744	748	746	440
45°	544	553	571	597	600	419
55°	381	387	406	428	441	340
65°	223	229	243	260	275	221
75°	90	94	101	106	112	98
85°	14	14	14	13	13	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1044.4	1044.4	1044.4	1044.4	1044.4
2.5°	1047.2	1047.6	1045.2	1038.8	1034.8
5°	1043.2	1042.8	1038.8	1033.2	1030.0
7.5°	1031.6	1032.4	1031.2	1023.2	1018.7
10°	1020.4	1020.8	1017.5	1011.1	1005.9
12.5°	1005.9	1005.5	1001.1	997.9	989.5
15°	983.0	985.4	983.0	978.6	971.8
17.5°	961.0	961.0	962.6	954.9	949.7
20°	936.1	937.3	937.3	931.3	925.3
22.5°	907.2	910.8	912.0	905.6	898.4
25°	873.1	879.9	883.9	877.5	869.9
27.5°	831.8	842.2	854.2	849.4	841.0
30°	785.6	800.9	820.9	816.9	810.9
32.5°	741.9	757.1	784.8	783.2	780.0
35°	702.2	711.8	744.3	748.3	745.5
37.5°	664.5	673.3	703.8	713.0	710.6
40°	624.7	634.4	658.4	674.9	675.7
42.5°	585.4	594.6	614.3	638.0	638.0
45°	543.7	552.9	571.0	597.0	600.3
47.5°	502.8	512.4	530.0	556.1	561.3
50°	462.6	471.5	489.1	514.4	522.4
52.5°	420.9	430.5	447.8	471.1	482.7
55°	380.8	387.2	406.1	428.5	441.0
57.5°	339.0	345.1	366.3	385.6	398.4
60°	298.9	306.5	323.0	342.7	357.5
62.5°	260.4	268.4	282.5	299.7	316.6
65°	223.1	229.1	242.7	260.0	274.8
67.5°	187.0	192.2	205.8	217.9	233.5
70°	150.5	157.3	167.3	179.0	189.0
72.5°	121.2	124.0	132.4	140.8	151.3
75°	89.5	94.3	101.1	105.9	111.9
77.5°	64.2	67.0	71.0	75.0	80.6
80°	42.9	44.1	47.7	48.5	53.0
82.5°	26.1	26.9	27.7	28.1	29.7
85°	14.0	14.0	14.0	13.2	13.2
87.5°	8.0	8.0	6.8	5.6	4.0
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)