

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: P554105

Luminaire Tested: **FUSL-12-2-LD4-1LO-30-UNV-80-88-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: P554105
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-LD4-1LO-30-UNV-80-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

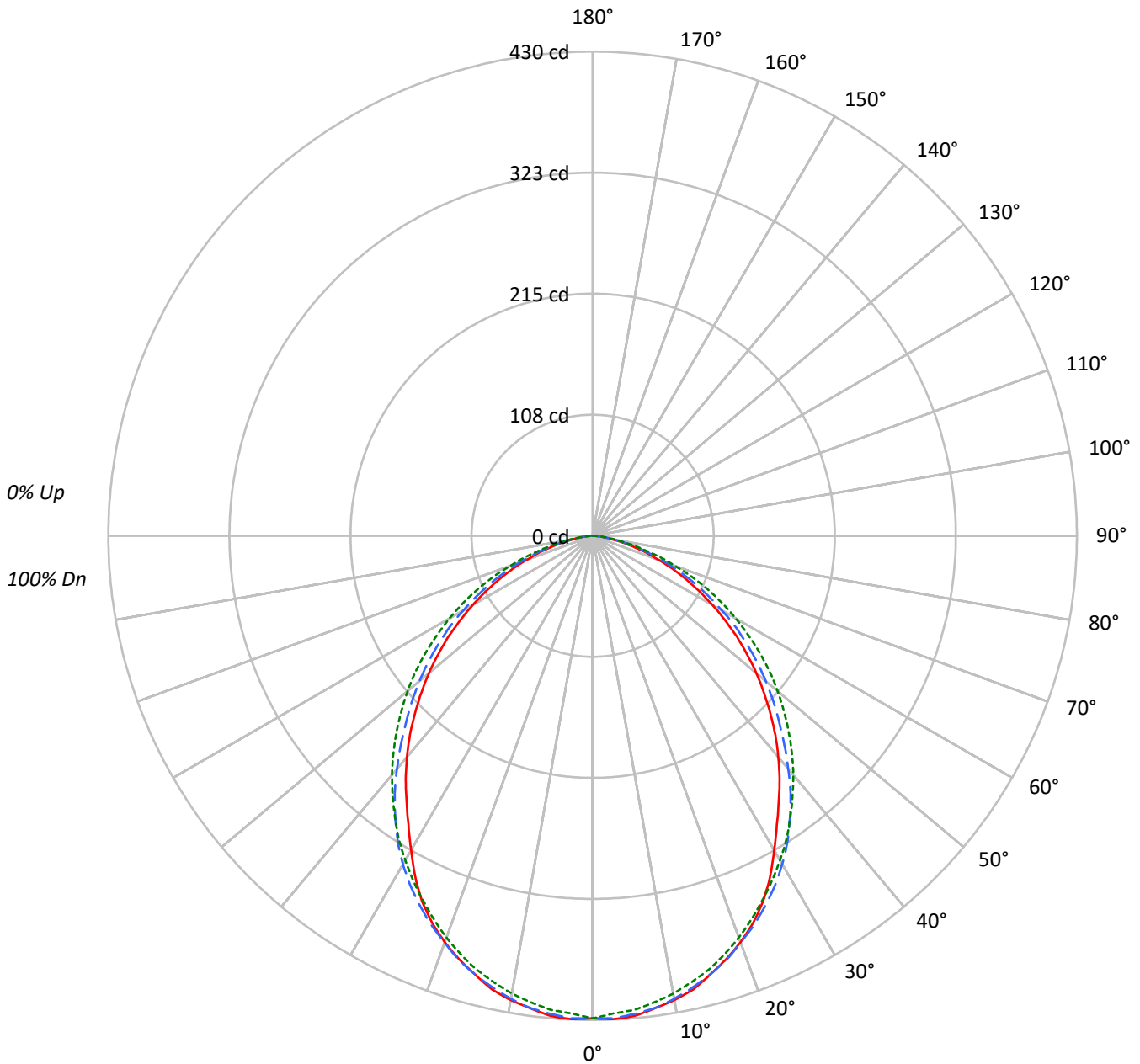
Lumens per Lamp: N/A
Luminaire Lumens: 991.0 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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

TEST NUMBER: P554105

CATALOG NUMBER: FUSL-12-2-LD4-1LO-30-UNV-80-88-EDD

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°	2307	2307	2307
5°	2313	2303	2284
10°	2288	2282	2256
15°	2248	2248	2222
20°	2200	2203	2175
25°	2128	2154	2120
30°	2004	2094	2068
35°	1893	2007	2010
40°	1801	1898	1948
45°	1698	1783	1875
50°	1589	1680	1795
55°	1467	1563	1697
60°	1321	1426	1579
65°	1165	1268	1436
70°	971	1081	1220
75°	763	863	954
80°	545	607	673
85°	358	358	333



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.4	4.1
10°-20°	113.4	11.4
20°-30°	165.7	16.7
30°-40°	188.0	19.0
40°-50°	181.5	18.3
50°-60°	149.7	15.1
60°-70°	99.7	10.1
70°-80°	44.6	4.5
80°-90°	8.0	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°	319.4	32.2
0°-40°	507.4	51.2
0°-60°	838.7	84.6
0°-90°	991.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	991.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	429	429	429	429	429	
5°	428	428	426	424	423	41
15°	403	404	403	402	399	114
25°	358	361	363	360	357	164
35°	288	292	305	307	306	181
45°	223	227	234	245	246	172
55°	156	159	167	176	181	139
65°	92	94	100	107	113	91
75°	37	39	42	44	46	40
85°	6	6	6	5	5	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	428.6	428.6	428.6	428.6	428.6
2.5°	429.7	429.9	428.9	426.3	424.6
5°	428.1	427.9	426.3	424.0	422.7
7.5°	423.3	423.6	423.1	419.9	418.0
10°	418.7	418.9	417.6	414.9	412.8
12.5°	412.8	412.6	410.8	409.5	406.0
15°	403.4	404.4	403.4	401.6	398.8
17.5°	394.3	394.3	395.0	391.9	389.7
20°	384.1	384.6	384.6	382.2	379.7
22.5°	372.3	373.8	374.2	371.6	368.6
25°	358.3	361.1	362.7	360.1	357.0
27.5°	341.3	345.6	350.5	348.6	345.1
30°	322.4	328.6	336.9	335.2	332.8
32.5°	304.4	310.7	322.1	321.4	320.1
35°	288.1	292.1	305.4	307.1	305.9
37.5°	272.7	276.3	288.8	292.6	291.6
40°	256.4	260.3	270.2	276.9	277.3
42.5°	240.2	244.0	252.1	261.8	261.8
45°	223.1	226.9	234.3	245.0	246.3
47.5°	206.3	210.3	217.5	228.2	230.3
50°	189.8	193.5	200.7	211.1	214.4
52.5°	172.7	176.7	183.7	193.3	198.1
55°	156.3	158.9	166.6	175.8	180.9
57.5°	139.1	141.6	150.3	158.2	163.5
60°	122.7	125.8	132.5	140.6	146.7
62.5°	106.9	110.2	115.9	123.0	129.9
65°	91.5	94.0	99.6	106.7	112.8
67.5°	76.7	78.9	84.5	89.4	95.8
70°	61.7	64.5	68.7	73.4	77.5
72.5°	49.7	50.9	54.3	57.8	62.1
75°	36.7	38.7	41.5	43.5	45.9
77.5°	26.3	27.5	29.1	30.8	33.1
80°	17.6	18.1	19.6	19.9	21.7
82.5°	10.7	11.0	11.4	11.5	12.2
85°	5.8	5.8	5.8	5.4	5.4
87.5°	3.3	3.3	2.8	2.3	1.6
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)