

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: P555064

Luminaire Tested: **FUSL-12-2-LD4-2LO-50-UNV-80-88-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: P555064
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-50-UNV-80-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

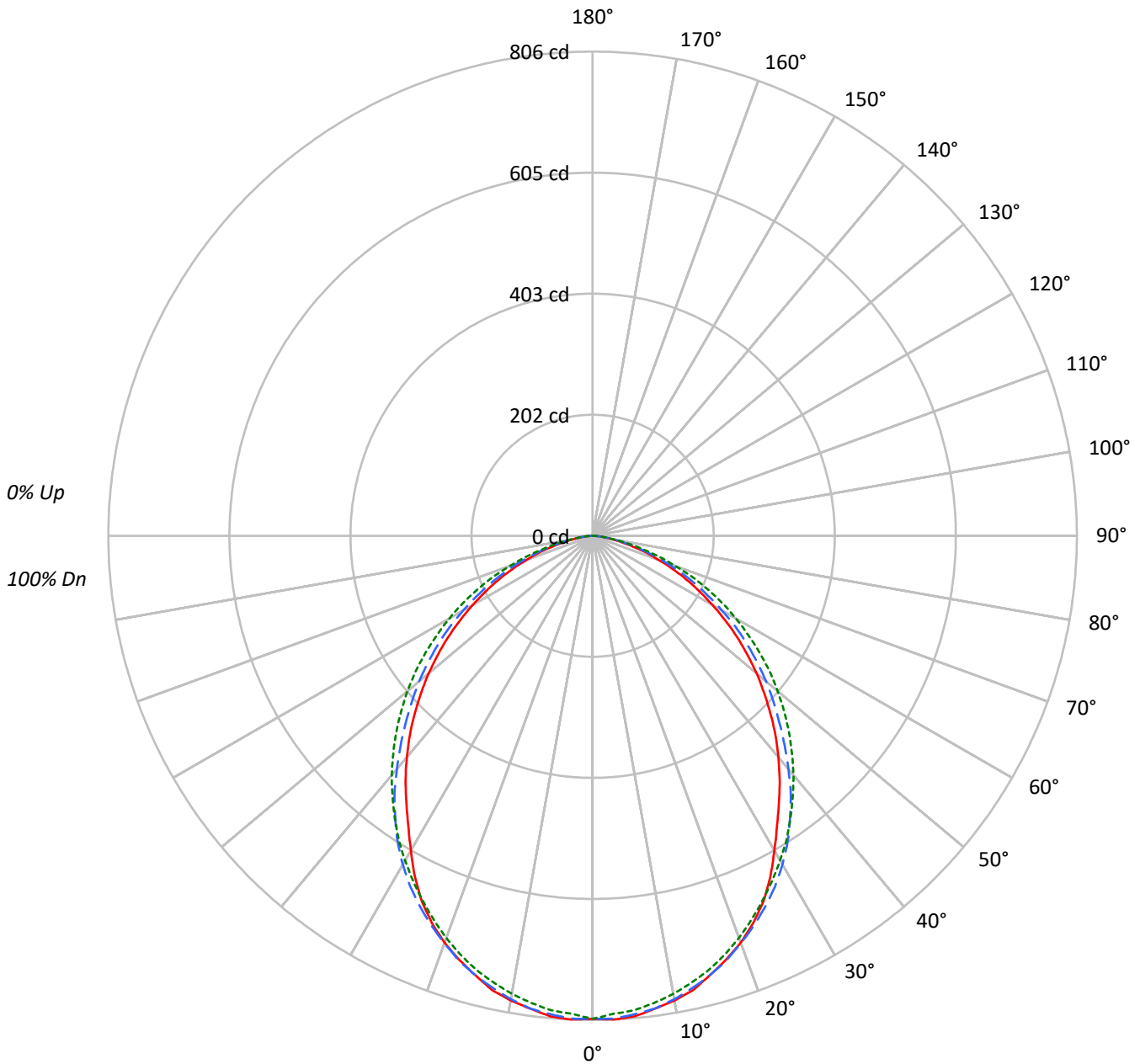
Lumens per Lamp: N/A
Luminaire Lumens: 1859.0 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P555064

CATALOG NUMBER: FUSL-12-2-LD4-2LO-50-UNV-80-88-EDD-90

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°	4327	4327	4327
5°	4338	4320	4284
10°	4292	4281	4232
15°	4216	4216	4168
20°	4127	4132	4079
25°	3991	4040	3976
30°	3759	3927	3879
35°	3551	3764	3771
40°	3379	3561	3654
45°	3185	3345	3517
50°	2982	3152	3367
55°	2750	2933	3185
60°	2477	2676	2962
65°	2187	2380	2695
70°	1822	2027	2290
75°	1433	1618	1792
80°	1023	1141	1265
85°	667	667	630



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.7	4.1
10°-20°	212.7	11.4
20°-30°	310.8	16.7
30°-40°	352.7	19.0
40°-50°	340.5	18.3
50°-60°	280.9	15.1
60°-70°	187.1	10.1
70°-80°	83.7	4.5
80°-90°	15.0	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°	599.1	32.2
0°-40°	951.8	51.2
0°-60°	1573.2	84.6
0°-90°	1859.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1859.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	804	804	804	804	804	
5°	803	803	800	795	793	76
15°	757	759	757	753	748	213
25°	672	677	680	676	670	308
35°	540	548	573	576	574	339
45°	418	426	440	460	462	323
55°	293	298	313	330	339	262
65°	172	176	187	200	212	170
75°	69	73	78	82	86	75
85°	11	11	11	10	10	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	804.0	804.0	804.0	804.0	804.0
2.5°	806.1	806.4	804.6	799.6	796.6
5°	803.0	802.7	799.6	795.3	792.9
7.5°	794.1	794.7	793.8	787.6	784.2
10°	785.4	785.7	783.3	778.3	774.3
12.5°	774.3	774.0	770.6	768.1	761.7
15°	756.7	758.6	756.7	753.3	748.1
17.5°	739.7	739.7	741.0	735.1	731.1
20°	720.6	721.5	721.5	716.9	712.2
22.5°	698.3	701.1	702.0	697.1	691.5
25°	672.1	677.3	680.4	675.5	669.6
27.5°	640.3	648.3	657.6	653.9	647.4
30°	604.8	616.5	631.9	628.8	624.2
32.5°	571.1	582.8	604.1	602.9	600.4
35°	540.5	547.9	572.9	576.0	573.9
37.5°	511.5	518.3	541.7	548.8	547.0
40°	480.9	488.3	506.8	519.5	520.1
42.5°	450.6	457.7	472.9	491.1	491.1
45°	418.5	425.6	439.5	459.6	462.1
47.5°	387.0	394.4	408.0	428.1	432.1
50°	356.1	362.9	376.5	396.0	402.1
52.5°	324.0	331.4	344.7	362.6	371.6
55°	293.1	298.1	312.6	329.9	339.4
57.5°	261.0	265.6	282.0	296.8	306.7
60°	230.1	236.0	248.6	263.8	275.2
62.5°	200.5	206.6	217.4	230.7	243.7
65°	171.7	176.4	186.9	200.1	211.6
67.5°	143.9	147.9	158.4	167.7	179.8
70°	115.8	121.1	128.8	137.8	145.5
72.5°	93.3	95.4	101.9	108.4	116.4
75°	68.9	72.6	77.8	81.5	86.2
77.5°	49.4	51.6	54.7	57.8	62.1
80°	33.0	34.0	36.8	37.4	40.8
82.5°	20.1	20.7	21.3	21.6	22.9
85°	10.8	10.8	10.8	10.2	10.2
87.5°	6.2	6.2	5.3	4.3	3.1
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)