

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: P554039

Luminaire Tested: **FUSL-12-2-LD4-1HI-50-UNV-80-87-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: P554039
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-LD4-1HI-50-UNV-80-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

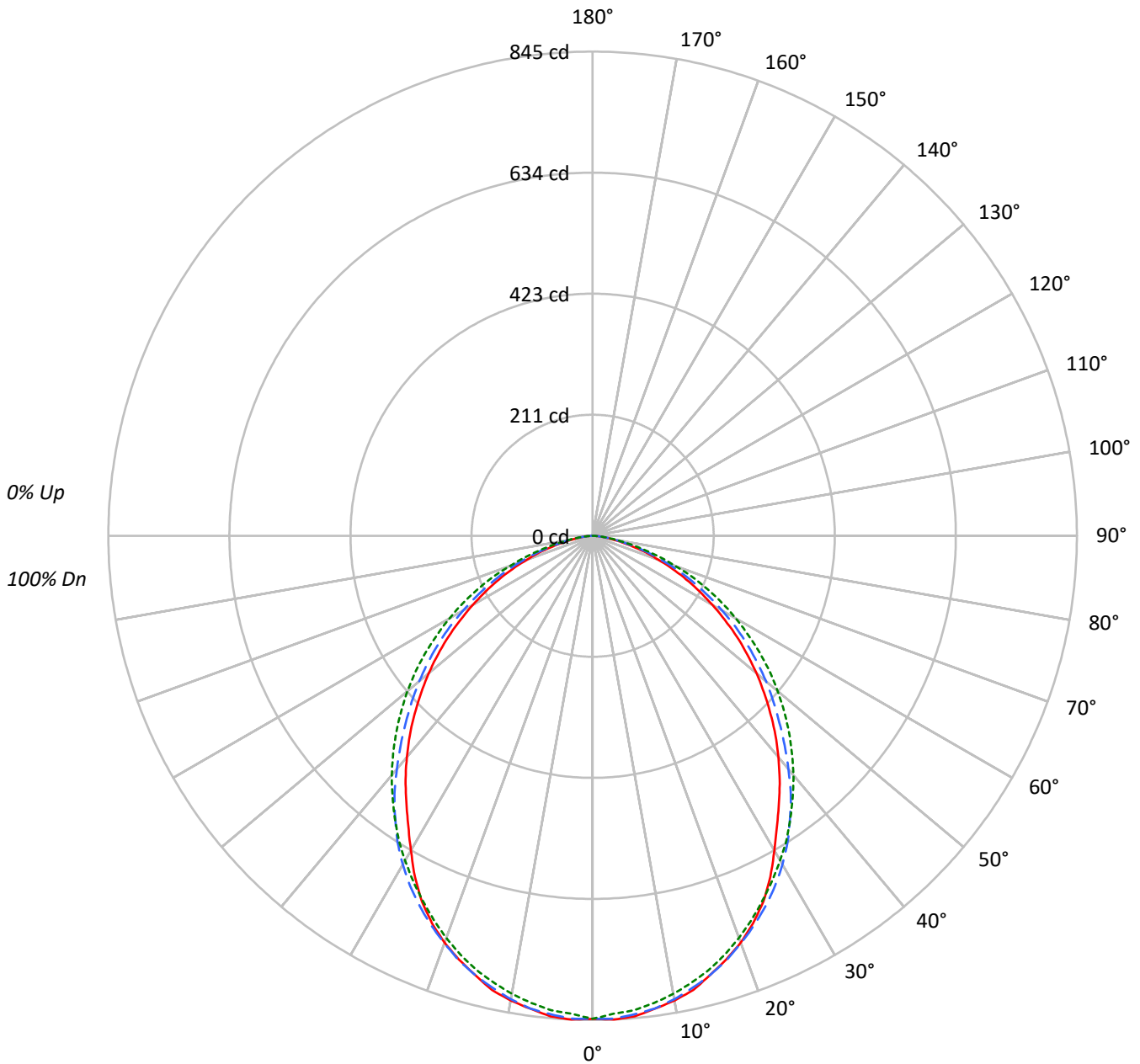
Lumens per Lamp: N/A
Luminaire Lumens: 1949.0 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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: P554039

CATALOG NUMBER: FUSL-12-2-LD4-1HI-50-UNV-80-87-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°	4536	4536	4536
5°	4548	4529	4491
10°	4500	4488	4436
15°	4420	4420	4370
20°	4327	4332	4277
25°	4184	4236	4169
30°	3940	4117	4067
35°	3723	3947	3953
40°	3542	3733	3831
45°	3340	3507	3687
50°	3126	3305	3530
55°	2883	3075	3339
60°	2596	2806	3105
65°	2292	2495	2825
70°	1910	2124	2400
75°	1501	1697	1878
80°	1072	1193	1323
85°	698	698	661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.4	4.1
10°-20°	222.9	11.4
20°-30°	325.8	16.7
30°-40°	369.8	19.0
40°-50°	357.0	18.3
50°-60°	294.5	15.1
60°-70°	196.1	10.1
70°-80°	87.8	4.5
80°-90°	15.7	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°	628.1	32.2
0°-40°	997.9	51.2
0°-60°	1649.4	84.6
0°-90°	1949.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1949.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	843	843	843	843	843	
5°	842	842	838	834	831	80
15°	793	795	793	790	784	224
25°	705	710	713	708	702	323
35°	567	574	601	604	602	355
45°	439	446	461	482	484	339
55°	307	312	328	346	356	274
65°	180	185	196	210	222	179
75°	72	76	82	86	90	79
85°	11	11	11	11	11	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	842.9	842.9	842.9	842.9	842.9
2.5°	845.2	845.5	843.5	838.4	835.1
5°	841.9	841.6	838.4	833.8	831.2
7.5°	832.5	833.2	832.2	825.7	822.2
10°	823.5	823.8	821.2	816.0	811.8
12.5°	811.8	811.5	807.9	805.3	798.5
15°	793.3	795.3	793.3	789.8	784.3
17.5°	775.5	775.5	776.8	770.7	766.5
20°	755.5	756.4	756.4	751.6	746.7
22.5°	732.1	735.1	736.0	730.9	725.0
25°	704.6	710.1	713.4	708.2	702.0
27.5°	671.3	679.7	689.4	685.5	678.7
30°	634.0	646.3	662.5	659.3	654.4
32.5°	598.7	611.0	633.4	632.1	629.5
35°	566.7	574.4	600.7	603.9	601.6
37.5°	536.2	543.4	568.0	575.4	573.5
40°	504.2	512.0	531.4	544.7	545.3
42.5°	472.4	479.9	495.8	514.9	514.9
45°	438.8	446.2	460.8	481.8	484.4
47.5°	405.7	413.5	427.8	448.8	453.0
50°	373.4	380.5	394.7	415.1	421.6
52.5°	339.7	347.5	361.4	380.2	389.6
55°	307.3	312.5	327.7	345.8	355.9
57.5°	273.6	278.5	295.6	311.2	321.5
60°	241.2	247.4	260.7	276.5	288.5
62.5°	210.2	216.6	228.0	241.9	255.5
65°	180.0	184.9	195.9	209.8	221.8
67.5°	150.9	155.1	166.1	175.8	188.5
70°	121.4	126.9	135.0	144.4	152.5
72.5°	97.8	100.1	106.9	113.7	122.1
75°	72.2	76.1	81.6	85.5	90.3
77.5°	51.8	54.1	57.3	60.6	65.1
80°	34.6	35.6	38.5	39.2	42.7
82.5°	21.0	21.7	22.3	22.7	24.0
85°	11.3	11.3	11.3	10.7	10.7
87.5°	6.5	6.5	5.5	4.5	3.2
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)