

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: P554864

Luminaire Tested: **FUSL-12-2-LD4-2LO-30-UNV-80-84-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: P554864
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-30-UNV-80-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

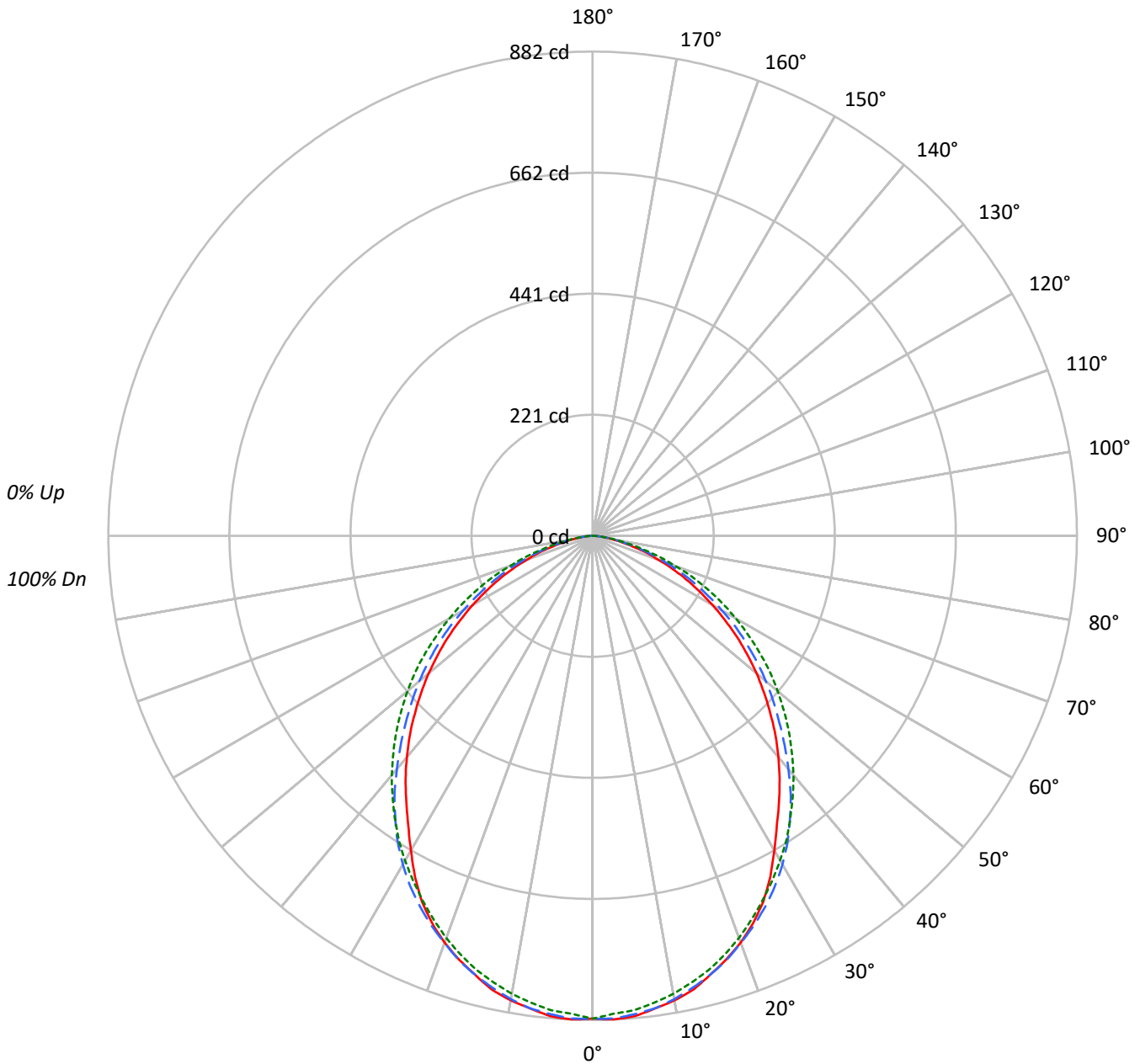
Lumens per Lamp: N/A
Luminaire Lumens: 2034.0 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	4735	4735	4735
5°	4747	4727	4687
10°	4697	4683	4630
15°	4613	4613	4561
20°	4515	4521	4463
25°	4367	4421	4350
30°	4112	4297	4245
35°	3886	4119	4125
40°	3697	3896	3998
45°	3485	3660	3848
50°	3262	3449	3684
55°	3009	3209	3485
60°	2710	2928	3241
65°	2393	2604	2948
70°	1994	2217	2505
75°	1568	1772	1961
80°	1122	1246	1382
85°	729	729	692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.8	4.1
10°-20°	232.7	11.4
20°-30°	340.0	16.7
30°-40°	386.0	19.0
40°-50°	372.6	18.3
50°-60°	307.3	15.1
60°-70°	204.7	10.1
70°-80°	91.6	4.5
80°-90°	16.4	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°	655.5	32.2
0°-40°	1041.4	51.2
0°-60°	1721.4	84.6
0°-90°	2034.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2034.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	880	880	880	880	880	
5°	879	878	875	870	868	83
15°	828	830	828	824	818	233
25°	735	741	744	739	733	337
35°	591	600	627	630	628	371
45°	458	466	481	503	506	353
55°	321	326	342	361	371	286
65°	188	193	204	219	232	186
75°	75	79	85	89	94	82
85°	12	12	12	11	11	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	879.7	879.7	879.7	879.7	879.7
2.5°	882.0	882.4	880.3	874.9	871.5
5°	878.6	878.3	874.9	870.2	867.5
7.5°	868.8	869.5	868.5	861.7	858.0
10°	859.4	859.7	857.0	851.6	847.2
12.5°	847.2	846.9	843.2	840.5	833.4
15°	827.9	830.0	827.9	824.2	818.5
17.5°	809.4	809.4	810.7	804.3	799.9
20°	788.4	789.4	789.4	784.4	779.3
22.5°	764.1	767.1	768.1	762.7	756.6
25°	735.4	741.1	744.5	739.1	732.6
27.5°	700.5	709.3	719.5	715.4	708.3
30°	661.7	674.5	691.4	688.0	683.0
32.5°	624.8	637.7	661.0	659.7	657.0
35°	591.4	599.5	626.9	630.3	627.9
37.5°	559.6	567.1	592.7	600.5	598.5
40°	526.2	534.3	554.6	568.4	569.1
42.5°	493.1	500.8	517.4	537.3	537.3
45°	457.9	465.7	480.9	502.9	505.6
47.5°	423.4	431.5	446.4	468.4	472.8
50°	389.6	397.1	411.9	433.2	440.0
52.5°	354.5	362.6	377.1	396.7	406.5
55°	320.7	326.1	342.0	360.9	371.4
57.5°	285.6	290.6	308.5	324.8	335.6
60°	251.8	258.2	272.0	288.6	301.1
62.5°	219.3	226.1	237.9	252.4	266.6
65°	187.9	193.0	204.5	219.0	231.5
67.5°	157.5	161.9	173.4	183.5	196.7
70°	126.7	132.5	140.9	150.7	159.2
72.5°	102.1	104.4	111.5	118.6	127.4
75°	75.4	79.4	85.2	89.2	94.3
77.5°	54.1	56.4	59.8	63.2	67.9
80°	36.2	37.2	40.2	40.9	44.6
82.5°	22.0	22.6	23.3	23.7	25.0
85°	11.8	11.8	11.8	11.2	11.2
87.5°	6.8	6.8	5.7	4.7	3.4
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)