

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: P553992

Luminaire Tested: **FUSL-12-2-LD4-1HI-40-UNV-81-88-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: P553992
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-40-UNV-81-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

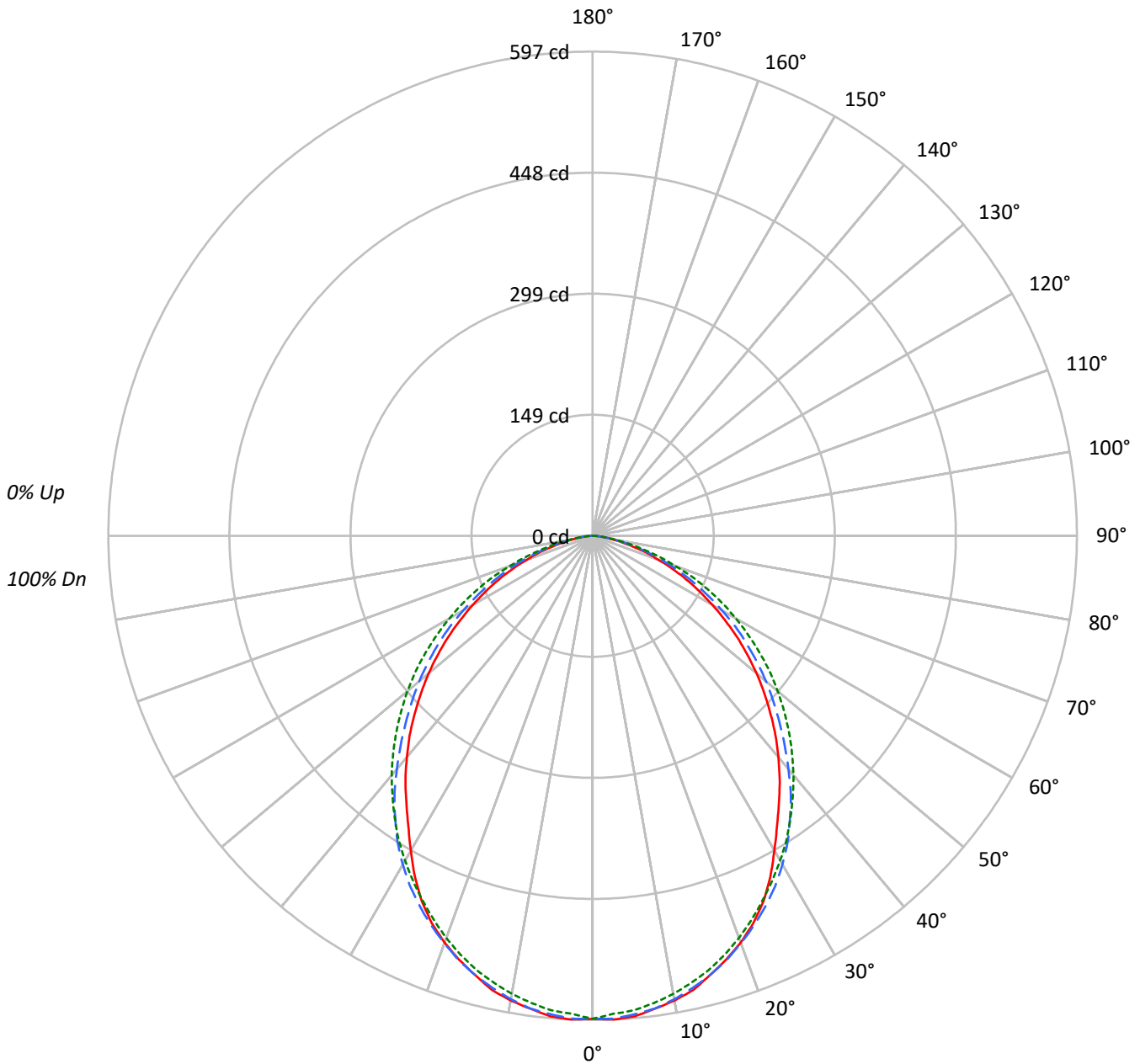
Lumens per Lamp: N/A
Luminaire Lumens: 1377.0 lumens
Efficiency: N/A
Efficacy: 63.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
Input Voltage (V): NR
Input Current (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°	3205	3205	3205
5°	3213	3200	3173
10°	3180	3171	3135
15°	3123	3123	3087
20°	3057	3061	3022
25°	2956	2993	2945
30°	2784	2909	2874
35°	2631	2788	2793
40°	2503	2637	2707
45°	2359	2478	2605
50°	2209	2335	2494
55°	2037	2172	2359
60°	1834	1983	2194
65°	1620	1762	1996
70°	1350	1501	1696
75°	1061	1200	1327
80°	759	843	936
85°	494	494	463



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.1	4.1
10°-20°	157.5	11.4
20°-30°	230.2	16.7
30°-40°	261.3	19.0
40°-50°	252.2	18.3
50°-60°	208.1	15.1
60°-70°	138.6	10.1
70°-80°	62.0	4.5
80°-90°	11.1	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°	443.8	32.2
0°-40°	705.0	51.2
0°-60°	1165.4	84.6
0°-90°	1377.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1377.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	596	596	596	596	596	
5°	595	595	592	589	587	56
15°	560	562	560	558	554	158
25°	498	502	504	500	496	228
35°	400	406	424	427	425	251
45°	310	315	326	340	342	239
55°	217	221	232	244	251	194
65°	127	131	138	148	157	126
75°	51	54	58	60	64	56
85°	8	8	8	8	8	11
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	595.5	595.5	595.5	595.5	595.5
2.5°	597.1	597.3	596.0	592.3	590.0
5°	594.8	594.6	592.3	589.1	587.3
7.5°	588.2	588.7	588.0	583.4	580.9
10°	581.8	582.0	580.2	576.5	573.6
12.5°	573.6	573.3	570.8	569.0	564.2
15°	560.5	561.9	560.5	558.0	554.1
17.5°	547.9	547.9	548.8	544.5	541.5
20°	533.7	534.4	534.4	531.0	527.6
22.5°	517.3	519.3	520.0	516.4	512.2
25°	497.8	501.7	504.0	500.3	496.0
27.5°	474.3	480.2	487.1	484.3	479.5
30°	448.0	456.6	468.1	465.8	462.4
32.5°	423.0	431.7	447.5	446.6	444.8
35°	400.4	405.9	424.4	426.7	425.1
37.5°	378.9	383.9	401.3	406.5	405.2
40°	356.2	361.7	375.4	384.8	385.3
42.5°	333.8	339.1	350.3	363.8	363.8
45°	310.0	315.3	325.6	340.4	342.3
47.5°	286.7	292.2	302.2	317.1	320.1
50°	263.8	268.8	278.9	293.3	297.9
52.5°	240.0	245.5	255.3	268.6	275.2
55°	217.1	220.8	231.5	244.3	251.4
57.5°	193.3	196.8	208.9	219.9	227.2
60°	170.4	174.8	184.2	195.4	203.8
62.5°	148.5	153.1	161.1	170.9	180.5
65°	127.2	130.6	138.4	148.3	156.7
67.5°	106.6	109.6	117.4	124.2	133.2
70°	85.8	89.7	95.4	102.0	107.8
72.5°	69.1	70.7	75.5	80.3	86.3
75°	51.0	53.8	57.7	60.4	63.8
77.5°	36.6	38.2	40.5	42.8	46.0
80°	24.5	25.2	27.2	27.7	30.2
82.5°	14.9	15.3	15.8	16.0	16.9
85°	8.0	8.0	8.0	7.5	7.5
87.5°	4.6	4.6	3.9	3.2	2.3
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)