

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: P553988

Luminaire Tested: **FUSL-12-2-LD4-1HI-40-UNV-81-86-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: P553988
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-81-86-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

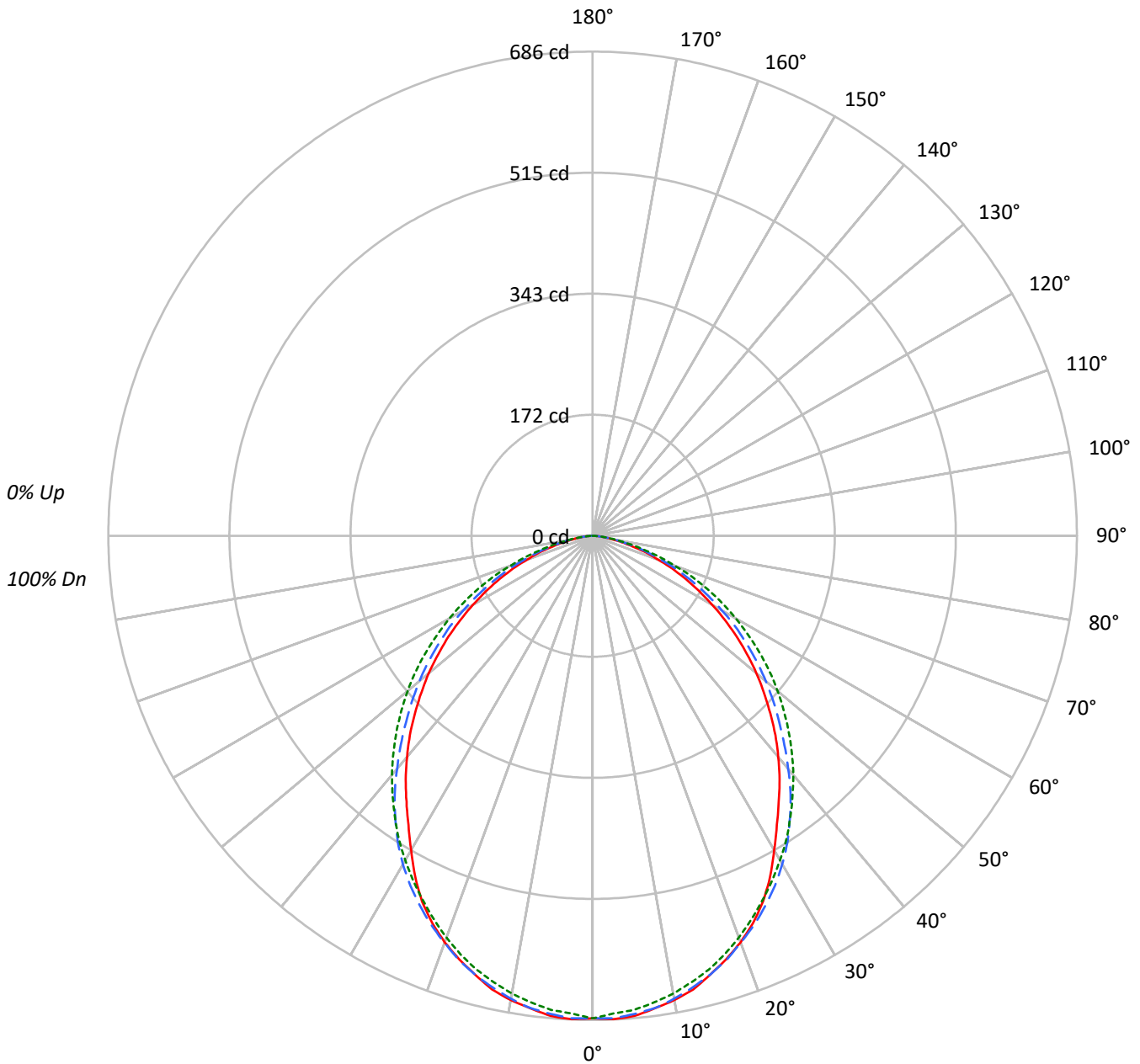
Lumens per Lamp: N/A
Luminaire Lumens: 1581.0 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

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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°	3680	3680	3680
5°	3690	3674	3643
10°	3651	3640	3599
15°	3586	3586	3545
20°	3510	3514	3469
25°	3394	3437	3382
30°	3196	3340	3299
35°	3020	3202	3206
40°	2873	3028	3107
45°	2709	2845	2991
50°	2536	2681	2864
55°	2339	2494	2709
60°	2106	2277	2519
65°	1859	2024	2291
70°	1550	1723	1947
75°	1219	1377	1524
80°	871	970	1075
85°	568	568	537



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.4	4.1
10°-20°	180.9	11.4
20°-30°	264.3	16.7
30°-40°	300.0	19.0
40°-50°	289.6	18.3
50°-60°	238.9	15.1
60°-70°	159.1	10.1
70°-80°	71.2	4.5
80°-90°	12.7	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°	509.5	32.2
0°-40°	809.5	51.2
0°-60°	1338.0	84.6
0°-90°	1581.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1581.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	684	684	684	684	684	
5°	683	683	680	676	674	65
15°	644	645	644	641	636	181
25°	572	576	579	574	570	262
35°	460	466	487	490	488	288
45°	356	362	374	391	393	275
55°	249	254	266	280	289	222
65°	146	150	159	170	180	145
75°	59	62	66	69	73	64
85°	9	9	9	9	9	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	683.7	683.7	683.7	683.7	683.7
2.5°	685.6	685.8	684.3	680.1	677.4
5°	683.0	682.7	680.1	676.4	674.3
7.5°	675.3	675.9	675.1	669.8	666.9
10°	668.0	668.2	666.1	661.9	658.5
12.5°	658.5	658.3	655.4	653.3	647.8
15°	643.6	645.1	643.6	640.7	636.2
17.5°	629.1	629.1	630.2	625.2	621.8
20°	612.8	613.6	613.6	609.7	605.7
22.5°	593.9	596.3	597.1	592.9	588.1
25°	571.6	576.0	578.7	574.5	569.5
27.5°	544.5	551.4	559.2	556.1	550.6
30°	514.3	524.3	537.4	534.8	530.9
32.5°	485.7	495.7	513.8	512.7	510.6
35°	459.7	466.0	487.3	489.9	488.0
37.5°	435.0	440.8	460.7	466.8	465.2
40°	409.0	415.3	431.0	441.8	442.3
42.5°	383.2	389.3	402.2	417.7	417.7
45°	355.9	362.0	373.8	390.9	393.0
47.5°	329.1	335.4	347.0	364.1	367.5
50°	302.9	308.6	320.2	336.7	342.0
52.5°	275.5	281.8	293.1	308.4	316.0
55°	249.3	253.5	265.8	280.5	288.7
57.5°	222.0	225.9	239.8	252.4	260.8
60°	195.7	200.7	211.5	224.3	234.0
62.5°	170.5	175.7	184.9	196.2	207.3
65°	146.0	150.0	158.9	170.2	179.9
67.5°	122.4	125.8	134.8	142.6	152.9
70°	98.5	103.0	109.5	117.2	123.7
72.5°	79.3	81.2	86.7	92.2	99.0
75°	58.6	61.7	66.2	69.3	73.3
77.5°	42.0	43.9	46.5	49.1	52.8
80°	28.1	28.9	31.3	31.8	34.7
82.5°	17.1	17.6	18.1	18.4	19.4
85°	9.2	9.2	9.2	8.7	8.7
87.5°	5.3	5.3	4.5	3.7	2.6
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)