

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: P554095

Luminaire Tested: **FUSL-12-2-LD4-1HI-50-UNV-93-97-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: P554095
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-93-97-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

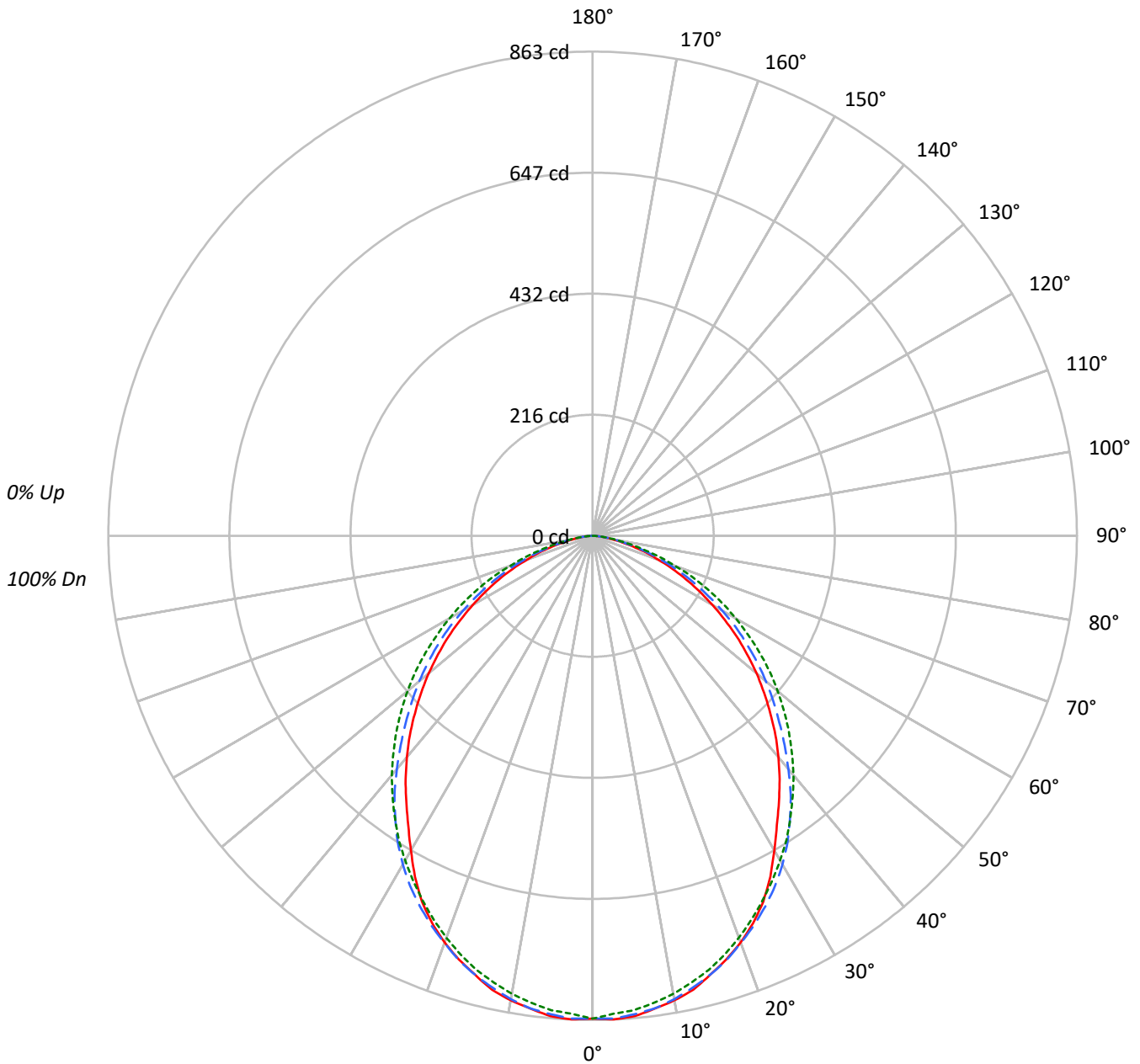
Lumens per Lamp: N/A
Luminaire Lumens: 1990.0 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	4632	4632	4632
5°	4644	4625	4585
10°	4595	4582	4530
15°	4513	4513	4462
20°	4418	4423	4367
25°	4272	4325	4257
30°	4023	4204	4153
35°	3801	4029	4036
40°	3617	3812	3912
45°	3410	3581	3765
50°	3192	3374	3605
55°	2944	3140	3410
60°	2651	2865	3171
65°	2341	2547	2884
70°	1951	2170	2450
75°	1533	1732	1917
80°	1097	1218	1351
85°	716	716	673



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.0	4.1
10°-20°	227.6	11.4
20°-30°	332.7	16.7
30°-40°	377.6	19.0
40°-50°	364.5	18.3
50°-60°	300.7	15.1
60°-70°	200.2	10.1
70°-80°	89.6	4.5
80°-90°	16.0	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°	641.3	32.2
0°-40°	1018.9	51.2
0°-60°	1684.1	84.6
0°-90°	1990.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1990.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	861	861	861	861	861	
5°	860	859	856	851	849	81
15°	810	812	810	806	801	228
25°	719	725	728	723	717	329
35°	579	586	613	617	614	363
45°	448	456	470	492	495	346
55°	314	319	335	353	363	280
65°	184	189	200	214	226	182
75°	74	78	83	87	92	81
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°	860.6	860.6	860.6	860.6	860.6
2.5°	862.9	863.3	861.3	856.0	852.7
5°	859.6	859.3	856.0	851.4	848.7
7.5°	850.0	850.7	849.7	843.1	839.5
10°	840.8	841.1	838.5	833.2	828.9
12.5°	828.9	828.6	824.9	822.3	815.3
15°	810.0	812.0	810.0	806.4	800.8
17.5°	791.9	791.9	793.2	786.9	782.6
20°	771.4	772.3	772.3	767.4	762.4
22.5°	747.5	750.5	751.5	746.2	740.3
25°	719.4	725.1	728.4	723.1	716.8
27.5°	685.4	694.0	703.9	699.9	693.0
30°	647.4	659.9	676.5	673.2	668.2
32.5°	611.3	623.9	646.7	645.4	642.7
35°	578.6	586.5	613.3	616.6	614.3
37.5°	547.5	554.8	579.9	587.5	585.5
40°	514.8	522.7	542.6	556.1	556.8
42.5°	482.4	490.0	506.2	525.7	525.7
45°	448.0	455.6	470.5	492.0	494.6
47.5°	414.3	422.2	436.8	458.2	462.5
50°	381.2	388.5	403.0	423.9	430.5
52.5°	346.8	354.8	369.0	388.2	397.7
55°	313.8	319.1	334.6	353.1	363.4
57.5°	279.4	284.3	301.9	317.7	328.3
60°	246.3	252.6	266.2	282.4	294.6
62.5°	214.6	221.2	232.8	247.0	260.9
65°	183.8	188.8	200.0	214.2	226.5
67.5°	154.1	158.4	169.6	179.5	192.4
70°	124.0	129.6	137.9	147.5	155.7
72.5°	99.8	102.2	109.1	116.1	124.6
75°	73.7	77.7	83.3	87.3	92.2
77.5°	52.9	55.2	58.5	61.8	66.5
80°	35.4	36.4	39.3	40.0	43.6
82.5°	21.5	22.2	22.8	23.1	24.5
85°	11.6	11.6	11.6	10.9	10.9
87.5°	6.6	6.6	5.6	4.6	3.3
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)