

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: P554277

Luminaire Tested: **FUSL-12-2-LD4-1LO-40-UNV-93-86-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: P554277
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-LD4-1LO-40-UNV-93-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

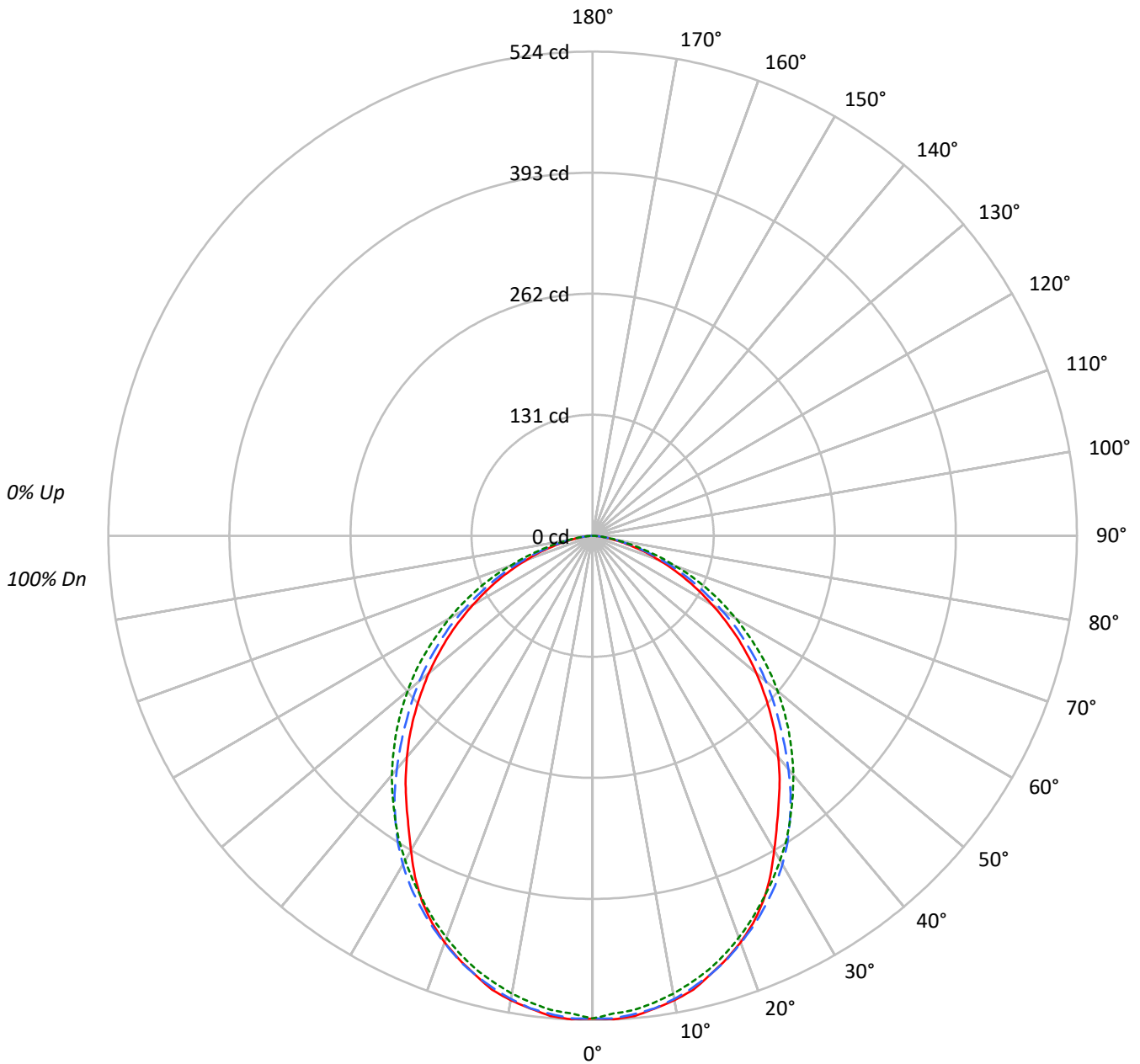
Lumens per Lamp: N/A
Luminaire Lumens: 1208.0 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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°	2812	2812	2812
5°	2819	2807	2783
10°	2789	2782	2750
15°	2740	2740	2708
20°	2682	2685	2651
25°	2593	2625	2584
30°	2442	2552	2521
35°	2307	2446	2450
40°	2196	2314	2375
45°	2070	2174	2286
50°	1937	2049	2188
55°	1787	1906	2070
60°	1609	1739	1925
65°	1421	1546	1751
70°	1185	1317	1487
75°	932	1052	1164
80°	666	741	821
85°	432	432	408



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.2	4.1
10°-20°	138.2	11.4
20°-30°	201.9	16.7
30°-40°	229.2	19.0
40°-50°	221.3	18.3
50°-60°	182.5	15.1
60°-70°	121.6	10.1
70°-80°	54.4	4.5
80°-90°	9.7	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°	389.3	32.2
0°-40°	618.5	51.2
0°-60°	1022.3	84.6
0°-90°	1208.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1208.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	522	522	522	522	522	
5°	522	522	520	517	515	49
15°	492	493	492	490	486	139
25°	437	440	442	439	435	200
35°	351	356	372	374	373	220
45°	272	277	286	299	300	210
55°	190	194	203	214	221	170
65°	112	115	121	130	138	111
75°	45	47	51	53	56	49
85°	7	7	7	7	7	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	522.4	522.4	522.4	522.4	522.4
2.5°	523.8	524.0	522.8	519.6	517.6
5°	521.8	521.6	519.6	516.8	515.2
7.5°	516.0	516.4	515.8	511.8	509.6
10°	510.4	510.6	509.0	505.8	503.2
12.5°	503.2	503.0	500.8	499.1	494.9
15°	491.7	492.9	491.7	489.5	486.1
17.5°	480.7	480.7	481.5	477.7	475.1
20°	468.2	468.8	468.8	465.8	462.8
22.5°	453.8	455.6	456.2	453.0	449.4
25°	436.7	440.1	442.1	438.9	435.1
27.5°	416.1	421.3	427.3	424.9	420.7
30°	393.0	400.6	410.6	408.6	405.6
32.5°	371.1	378.7	392.6	391.8	390.2
35°	351.2	356.0	372.3	374.3	372.9
37.5°	332.4	336.8	352.0	356.6	355.4
40°	312.5	317.3	329.4	337.6	338.0
42.5°	292.8	297.4	307.3	319.1	319.1
45°	272.0	276.6	285.6	298.6	300.3
47.5°	251.5	256.3	265.1	278.2	280.8
50°	231.4	235.8	244.7	257.3	261.3
52.5°	210.5	215.4	224.0	235.6	241.4
55°	190.5	193.7	203.1	214.4	220.6
57.5°	169.6	172.6	183.2	192.9	199.3
60°	149.5	153.3	161.6	171.4	178.8
62.5°	130.3	134.3	141.3	149.9	158.4
65°	111.6	114.6	121.4	130.1	137.5
67.5°	93.5	96.1	103.0	109.0	116.8
70°	75.3	78.7	83.7	89.5	94.5
72.5°	60.6	62.0	66.2	70.4	75.7
75°	44.8	47.2	50.6	53.0	56.0
77.5°	32.1	33.5	35.5	37.5	40.3
80°	21.5	22.1	23.9	24.3	26.5
82.5°	13.0	13.4	13.8	14.0	14.9
85°	7.0	7.0	7.0	6.6	6.6
87.5°	4.0	4.0	3.4	2.8	2.0
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)