

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: P554272

Luminaire Tested: **FUSL-12-2-LD4-1LO-40-UNV-93-84-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: P554272
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-93-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

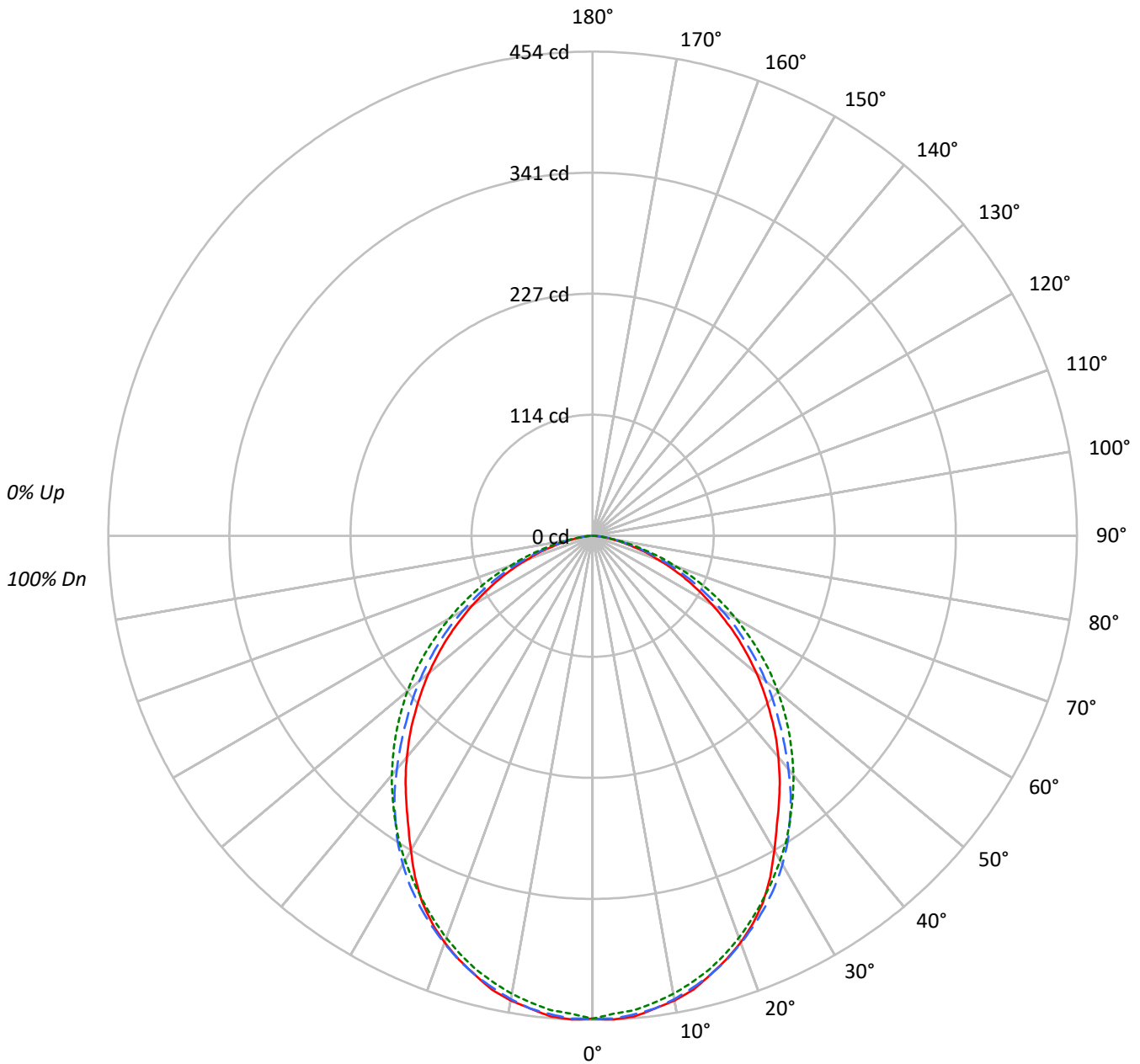
Lumens per Lamp: N/A
Luminaire Lumens: 1047.0 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
Input Voltage (V): NR
Input Current (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°	2437	2437	2437
5°	2444	2433	2412
10°	2418	2411	2383
15°	2375	2375	2347
20°	2324	2328	2297
25°	2248	2276	2239
30°	2117	2212	2185
35°	2000	2120	2123
40°	1903	2006	2058
45°	1794	1884	1980
50°	1680	1775	1896
55°	1549	1651	1794
60°	1395	1507	1668
65°	1231	1340	1518
70°	1026	1141	1289
75°	807	911	1009
80°	576	642	713
85°	377	377	352



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.6	4.1
10°-20°	119.8	11.4
20°-30°	175.0	16.7
30°-40°	198.7	19.0
40°-50°	191.8	18.3
50°-60°	158.2	15.1
60°-70°	105.3	10.1
70°-80°	47.1	4.5
80°-90°	8.4	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°	337.4	32.2
0°-40°	536.1	51.2
0°-60°	886.1	84.6
0°-90°	1047.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1047.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	453	453	453	453	453	
5°	452	452	450	448	446	43
15°	426	427	426	424	421	120
25°	378	382	383	380	377	173
35°	304	309	323	324	323	191
45°	236	240	248	259	260	182
55°	165	168	176	186	191	147
65°	97	99	105	113	119	96
75°	39	41	44	46	48	42
85°	6	6	6	6	6	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	452.8	452.8	452.8	452.8	452.8
2.5°	454.0	454.2	453.1	450.4	448.6
5°	452.3	452.1	450.4	447.9	446.5
7.5°	447.2	447.6	447.1	443.6	441.7
10°	442.4	442.5	441.1	438.4	436.1
12.5°	436.1	435.9	434.0	432.6	429.0
15°	426.2	427.2	426.2	424.3	421.3
17.5°	416.6	416.6	417.3	414.0	411.7
20°	405.8	406.4	406.4	403.7	401.1
22.5°	393.3	394.9	395.4	392.6	389.5
25°	378.5	381.5	383.2	380.4	377.1
27.5°	360.6	365.1	370.3	368.3	364.6
30°	340.6	347.2	355.9	354.2	351.6
32.5°	321.6	328.2	340.3	339.6	338.2
35°	304.4	308.6	322.7	324.4	323.2
37.5°	288.1	291.9	305.1	309.1	308.1
40°	270.8	275.0	285.5	292.6	292.9
42.5°	253.8	257.8	266.3	276.6	276.6
45°	235.7	239.7	247.5	258.8	260.2
47.5°	218.0	222.1	229.8	241.1	243.4
50°	200.6	204.4	212.0	223.0	226.5
52.5°	182.5	186.7	194.1	204.2	209.3
55°	165.1	167.9	176.0	185.8	191.2
57.5°	147.0	149.6	158.8	167.2	172.7
60°	129.6	132.9	140.0	148.6	155.0
62.5°	112.9	116.4	122.5	129.9	137.2
65°	96.7	99.3	105.2	112.7	119.2
67.5°	81.1	83.3	89.2	94.5	101.2
70°	65.2	68.2	72.5	77.6	81.9
72.5°	52.5	53.8	57.4	61.1	65.6
75°	38.8	40.9	43.8	45.9	48.5
77.5°	27.8	29.1	30.8	32.5	35.0
80°	18.6	19.1	20.7	21.0	23.0
82.5°	11.3	11.7	12.0	12.2	12.9
85°	6.1	6.1	6.1	5.7	5.7
87.5°	3.5	3.5	3.0	2.4	1.7
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)