

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: P554342

Luminaire Tested: **FUSL-12-2-LD4-1LO-50-UNV-93-87-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: P554342
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-50-UNV-93-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

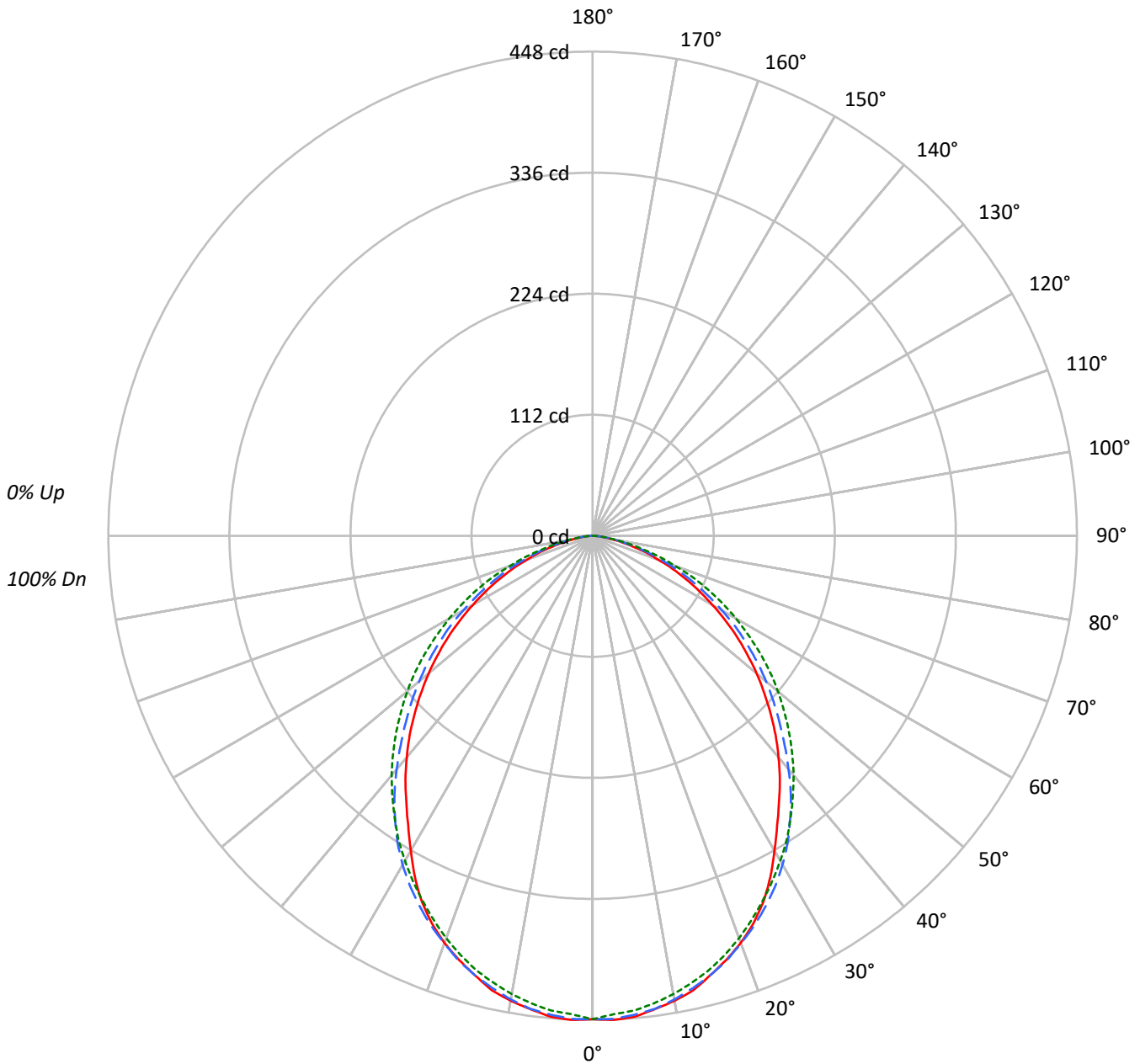
Lumens per Lamp: N/A
Luminaire Lumens: 1034.0 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	2407	2407	2407
5°	2413	2403	2383
10°	2388	2381	2354
15°	2345	2345	2318
20°	2296	2298	2269
25°	2220	2248	2211
30°	2091	2184	2158
35°	1975	2094	2097
40°	1879	1981	2033
45°	1772	1861	1956
50°	1659	1753	1873
55°	1529	1632	1772
60°	1378	1489	1648
65°	1216	1323	1499
70°	1013	1127	1273
75°	796	900	996
80°	570	632	704
85°	371	371	352



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.1	4.1
10°-20°	118.3	11.4
20°-30°	172.8	16.7
30°-40°	196.2	19.0
40°-50°	189.4	18.3
50°-60°	156.2	15.1
60°-70°	104.0	10.1
70°-80°	46.6	4.5
80°-90°	8.3	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°	333.2	32.2
0°-40°	529.4	51.2
0°-60°	875.1	84.6
0°-90°	1034.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1034.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	447	447	447	447	447	
5°	447	446	445	442	441	42
15°	421	422	421	419	416	119
25°	374	377	378	376	372	171
35°	301	305	319	320	319	188
45°	233	237	244	256	257	180
55°	163	166	174	184	189	146
65°	96	98	104	111	118	95
75°	38	40	43	45	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°	447.2	447.2	447.2	447.2	447.2
2.5°	448.4	448.6	447.5	444.8	443.1
5°	446.7	446.5	444.8	442.4	441.0
7.5°	441.7	442.0	441.5	438.1	436.2
10°	436.9	437.0	435.7	432.9	430.7
12.5°	430.7	430.5	428.6	427.3	423.6
15°	420.9	421.9	420.9	419.0	416.1
17.5°	411.4	411.4	412.1	408.9	406.6
20°	400.8	401.3	401.3	398.7	396.2
22.5°	388.4	390.0	390.5	387.7	384.6
25°	373.8	376.7	378.5	375.7	372.4
27.5°	356.1	360.6	365.7	363.7	360.1
30°	336.4	342.9	351.5	349.8	347.2
32.5°	317.6	324.2	336.0	335.3	334.0
35°	300.6	304.8	318.7	320.4	319.2
37.5°	284.5	288.3	301.3	305.3	304.2
40°	267.5	271.6	281.9	289.0	289.3
42.5°	250.6	254.6	263.0	273.2	273.2
45°	232.8	236.7	244.5	255.6	257.0
47.5°	215.3	219.4	226.9	238.1	240.3
50°	198.1	201.9	209.4	220.2	223.7
52.5°	180.2	184.3	191.7	201.7	206.7
55°	163.0	165.8	173.9	183.5	188.8
57.5°	145.2	147.7	156.8	165.1	170.6
60°	128.0	131.3	138.3	146.7	153.1
62.5°	111.5	114.9	120.9	128.3	135.5
65°	95.5	98.1	103.9	111.3	117.7
67.5°	80.1	82.3	88.1	93.3	100.0
70°	64.4	67.3	71.6	76.6	80.9
72.5°	51.9	53.1	56.7	60.3	64.8
75°	38.3	40.4	43.3	45.4	47.9
77.5°	27.5	28.7	30.4	32.1	34.5
80°	18.4	18.9	20.4	20.8	22.7
82.5°	11.2	11.5	11.9	12.0	12.7
85°	6.0	6.0	6.0	5.7	5.7
87.5°	3.4	3.4	2.9	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)