

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: P554274

Luminaire Tested: **FUSL-12-2-LD4-1LO-40-UNV-93-85-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: P554274
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-93-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

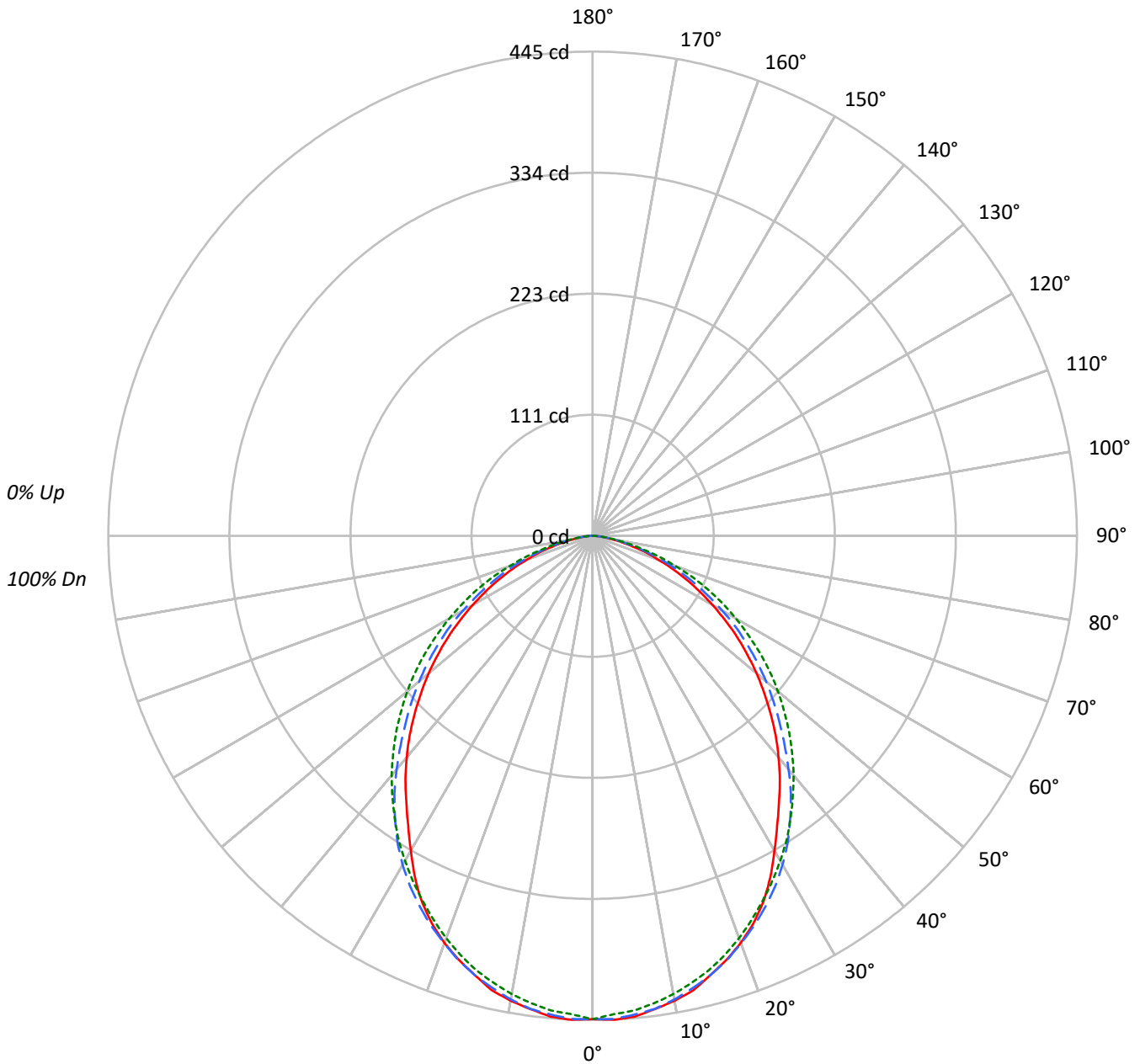
Lumens per Lamp: N/A
Luminaire Lumens: 1027.0 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P554274

CATALOG NUMBER: FUSL-12-2-LD4-1LO-40-UNV-93-85-EDD-90

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54					54			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47					47			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34					34			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2391	2391	2391
5°	2397	2387	2366
10°	2371	2365	2338
15°	2329	2329	2303
20°	2280	2283	2254
25°	2205	2232	2197
30°	2076	2169	2143
35°	1962	2079	2083
40°	1867	1967	2018
45°	1760	1848	1943
50°	1647	1742	1860
55°	1519	1620	1759
60°	1368	1479	1636
65°	1209	1314	1489
70°	1007	1120	1265
75°	792	894	990
80°	567	629	697
85°	371	371	346



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.8	4.1
10°-20°	117.5	11.4
20°-30°	171.7	16.7
30°-40°	194.9	19.0
40°-50°	188.1	18.3
50°-60°	155.2	15.1
60°-70°	103.3	10.1
70°-80°	46.2	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°	331.0	32.2
0°-40°	525.8	51.2
0°-60°	869.1	84.6
0°-90°	1027.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1027.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	444	444	444	444	444	
5°	444	444	442	439	438	42
15°	418	419	418	416	413	118
25°	371	374	376	373	370	170
35°	299	303	316	318	317	187
45°	231	235	243	254	255	178
55°	162	165	173	182	188	145
65°	95	97	103	111	117	94
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°	444.2	444.2	444.2	444.2	444.2
2.5°	445.3	445.5	444.5	441.8	440.1
5°	443.6	443.5	441.8	439.4	438.0
7.5°	438.7	439.0	438.5	435.1	433.2
10°	433.9	434.1	432.7	430.0	427.8
12.5°	427.8	427.6	425.7	424.4	420.8
15°	418.0	419.1	418.0	416.2	413.3
17.5°	408.7	408.7	409.3	406.1	403.9
20°	398.1	398.6	398.6	396.0	393.5
22.5°	385.8	387.3	387.8	385.1	382.0
25°	371.3	374.2	375.9	373.2	369.9
27.5°	353.7	358.2	363.3	361.2	357.6
30°	334.1	340.6	349.1	347.4	344.8
32.5°	315.5	322.0	333.8	333.1	331.7
35°	298.6	302.7	316.5	318.2	317.0
37.5°	282.6	286.3	299.3	303.2	302.2
40°	265.7	269.8	280.0	287.0	287.3
42.5°	248.9	252.9	261.2	271.3	271.3
45°	231.2	235.1	242.8	253.9	255.3
47.5°	213.8	217.9	225.4	236.5	238.7
50°	196.7	200.5	208.0	218.7	222.2
52.5°	179.0	183.1	190.4	200.3	205.3
55°	161.9	164.7	172.7	182.2	187.5
57.5°	144.2	146.7	155.8	164.0	169.4
60°	127.1	130.4	137.4	145.7	152.0
62.5°	110.7	114.2	120.1	127.5	134.6
65°	94.9	97.4	103.2	110.6	116.9
67.5°	79.5	81.7	87.5	92.7	99.3
70°	64.0	66.9	71.2	76.1	80.4
72.5°	51.5	52.7	56.3	59.9	64.3
75°	38.1	40.1	43.0	45.0	47.6
77.5°	27.3	28.5	30.2	31.9	34.3
80°	18.3	18.8	20.3	20.6	22.5
82.5°	11.1	11.4	11.8	11.9	12.6
85°	6.0	6.0	6.0	5.6	5.6
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)