

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: P554242

Luminaire Tested: **FUSL-12-2-LD4-1LO-40-UNV-81-85-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: P554242
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-81-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC 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

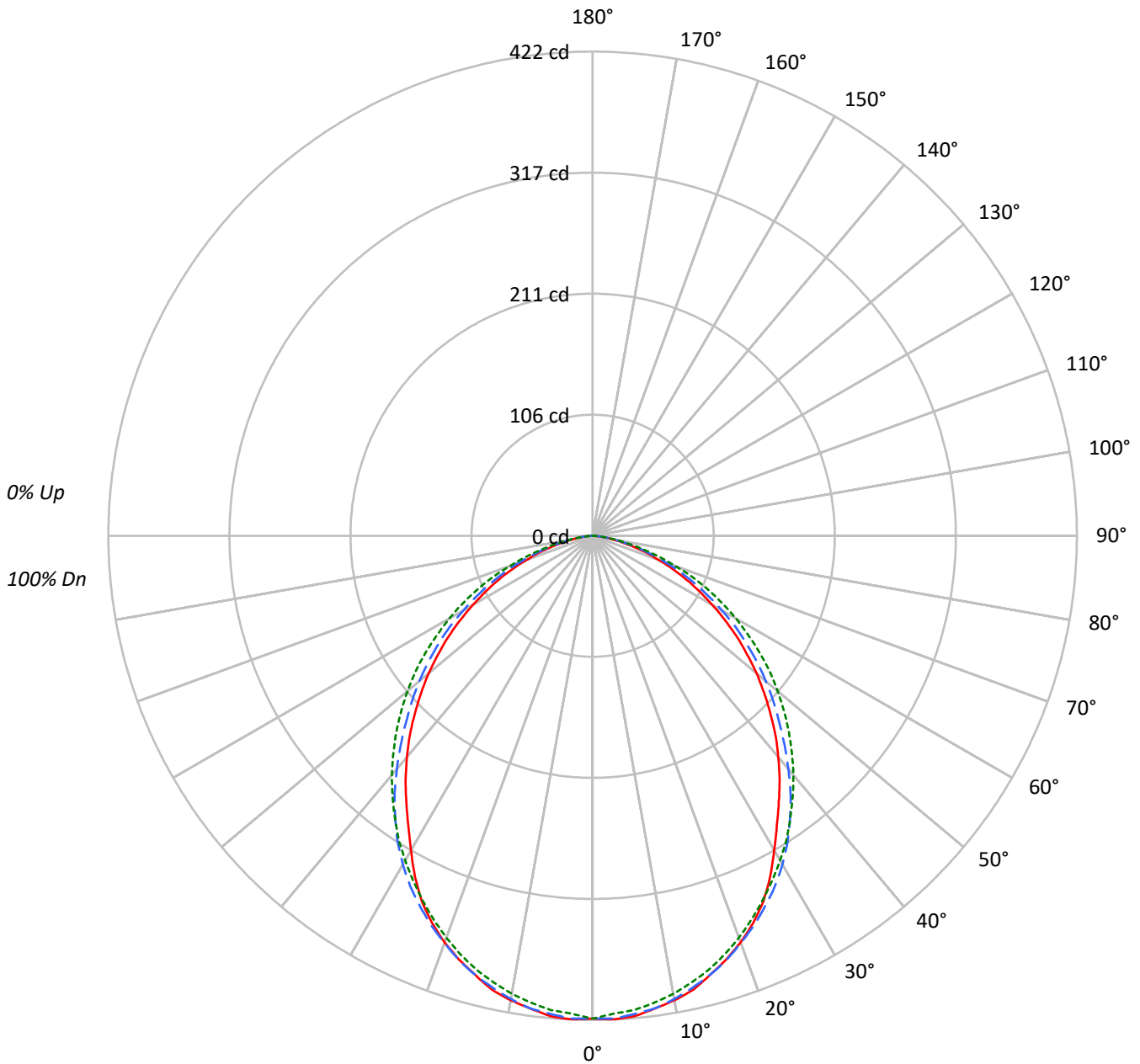
Lumens per Lamp: N/A
Luminaire Lumens: 973.0 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	2265	2265	2265
5°	2271	2261	2242
10°	2247	2241	2215
15°	2207	2207	2181
20°	2160	2163	2135
25°	2089	2115	2081
30°	1967	2056	2030
35°	1859	1970	1974
40°	1768	1864	1912
45°	1667	1751	1840
50°	1561	1650	1762
55°	1439	1535	1667
60°	1296	1400	1550
65°	1145	1245	1410
70°	954	1061	1197
75°	749	846	938
80°	536	595	660
85°	352	352	327



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.6	4.1
10°-20°	111.3	11.4
20°-30°	162.6	16.7
30°-40°	184.6	19.0
40°-50°	178.2	18.3
50°-60°	147.0	15.1
60°-70°	97.9	10.1
70°-80°	43.8	4.5
80°-90°	7.8	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°	313.6	32.2
0°-40°	498.2	51.2
0°-60°	823.4	84.6
0°-90°	973.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	973.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	421	421	421	421	421	
5°	420	420	418	416	415	40
15°	396	397	396	394	392	112
25°	352	354	356	354	350	161
35°	283	287	300	302	300	177
45°	219	223	230	240	242	169
55°	153	156	164	173	178	137
65°	90	92	98	105	111	89
75°	36	38	41	43	45	39
85°	6	6	6	5	5	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	420.8	420.8	420.8	420.8	420.8
2.5°	421.9	422.1	421.1	418.5	416.9
5°	420.3	420.2	418.5	416.3	415.0
7.5°	415.6	415.9	415.5	412.2	410.5
10°	411.1	411.3	410.0	407.4	405.3
12.5°	405.3	405.1	403.3	402.0	398.7
15°	396.1	397.0	396.1	394.3	391.5
17.5°	387.2	387.2	387.8	384.7	382.6
20°	377.1	377.6	377.6	375.2	372.8
22.5°	365.5	367.0	367.5	364.9	362.0
25°	351.8	354.5	356.1	353.5	350.5
27.5°	335.1	339.3	344.2	342.2	338.8
30°	316.5	322.7	330.8	329.1	326.7
32.5°	298.9	305.0	316.2	315.6	314.3
35°	282.9	286.8	299.9	301.5	300.4
37.5°	267.7	271.3	283.5	287.3	286.3
40°	251.7	255.6	265.3	271.9	272.2
42.5°	235.9	239.6	247.5	257.0	257.0
45°	219.0	222.8	230.0	240.5	241.8
47.5°	202.6	206.4	213.6	224.1	226.2
50°	186.4	189.9	197.1	207.2	210.5
52.5°	169.6	173.5	180.4	189.8	194.5
55°	153.4	156.0	163.6	172.7	177.7
57.5°	136.6	139.0	147.6	155.4	160.5
60°	120.4	123.5	130.1	138.1	144.0
62.5°	104.9	108.1	113.8	120.8	127.5
65°	89.9	92.3	97.8	104.8	110.7
67.5°	75.3	77.4	82.9	87.8	94.1
70°	60.6	63.4	67.4	72.1	76.1
72.5°	48.8	50.0	53.3	56.7	60.9
75°	36.0	38.0	40.7	42.7	45.1
77.5°	25.9	27.0	28.6	30.2	32.5
80°	17.3	17.8	19.2	19.6	21.3
82.5°	10.5	10.8	11.2	11.3	12.0
85°	5.7	5.7	5.7	5.3	5.3
87.5°	3.2	3.2	2.7	2.3	1.6
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)