

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: P554098

Luminaire Tested: **FUSL-12-2-LD4-1LO-30-UNV-80-85-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: P554098
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-30-UNV-80-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

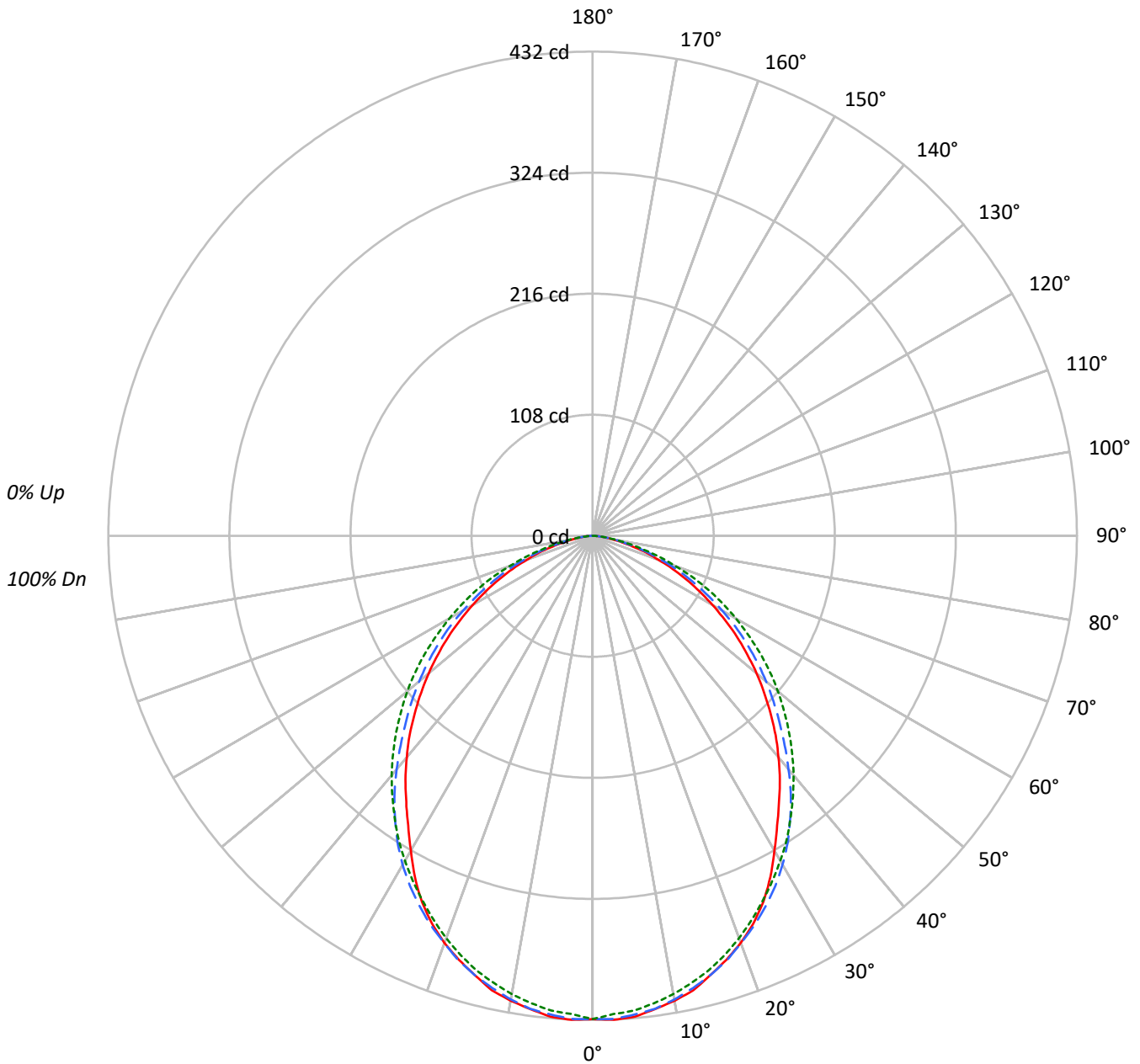
Lumens per Lamp: N/A
Luminaire Lumens: 997.0 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	2321	2321	2321
5°	2327	2317	2297
10°	2302	2296	2270
15°	2261	2261	2235
20°	2214	2216	2188
25°	2140	2167	2132
30°	2015	2106	2081
35°	1905	2019	2022
40°	1812	1910	1959
45°	1709	1794	1886
50°	1599	1690	1806
55°	1475	1573	1708
60°	1328	1435	1589
65°	1173	1276	1445
70°	977	1087	1227
75°	767	867	961
80°	549	611	679
85°	358	358	340



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.6	4.1
10°-20°	114.0	11.4
20°-30°	166.7	16.7
30°-40°	189.2	19.0
40°-50°	182.6	18.3
50°-60°	150.7	15.1
60°-70°	100.3	10.1
70°-80°	44.9	4.5
80°-90°	8.0	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°	321.3	32.2
0°-40°	510.5	51.2
0°-60°	843.8	84.6
0°-90°	997.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	997.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	431	431	431	431	431	
5°	431	430	429	426	425	41
15°	406	407	406	404	401	114
25°	360	363	365	362	359	165
35°	290	294	307	309	308	182
45°	224	228	236	246	248	173
55°	157	160	168	177	182	140
65°	92	95	100	107	114	91
75°	37	39	42	44	46	40
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°	431.2	431.2	431.2	431.2	431.2
2.5°	432.3	432.5	431.5	428.9	427.2
5°	430.7	430.5	428.9	426.5	425.2
7.5°	425.9	426.2	425.7	422.4	420.6
10°	421.2	421.4	420.1	417.4	415.3
12.5°	415.3	415.1	413.3	412.0	408.5
15°	405.8	406.8	405.8	404.0	401.2
17.5°	396.7	396.7	397.4	394.2	392.1
20°	386.5	386.9	386.9	384.5	382.0
22.5°	374.5	376.0	376.5	373.9	370.9
25°	360.4	363.3	364.9	362.3	359.1
27.5°	343.4	347.7	352.7	350.7	347.2
30°	324.3	330.6	338.9	337.3	334.8
32.5°	306.3	312.6	324.0	323.3	322.0
35°	289.9	293.9	307.3	308.9	307.8
37.5°	274.3	278.0	290.5	294.4	293.4
40°	257.9	261.9	271.8	278.6	278.9
42.5°	241.7	245.5	253.6	263.4	263.4
45°	224.5	228.3	235.7	246.5	247.8
47.5°	207.6	211.5	218.8	229.6	231.7
50°	191.0	194.6	201.9	212.4	215.7
52.5°	173.8	177.7	184.9	194.5	199.3
55°	157.2	159.8	167.6	176.9	182.0
57.5°	140.0	142.5	151.2	159.2	164.5
60°	123.4	126.6	133.3	141.5	147.6
62.5°	107.5	110.8	116.6	123.7	130.7
65°	92.1	94.6	100.2	107.3	113.5
67.5°	77.2	79.3	85.0	89.9	96.4
70°	62.1	64.9	69.1	73.9	78.0
72.5°	50.0	51.2	54.7	58.1	62.4
75°	36.9	38.9	41.7	43.7	46.2
77.5°	26.5	27.7	29.3	31.0	33.3
80°	17.7	18.2	19.7	20.0	21.9
82.5°	10.8	11.1	11.4	11.6	12.3
85°	5.8	5.8	5.8	5.5	5.5
87.5°	3.3	3.3	2.8	2.3	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)