

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: P555676

Luminaire Tested: **FUSL-12-2-LD4-3LO-30-UNV-82-96-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: P555676
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-LD4-3LO-30-UNV-82-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250
CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT
LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

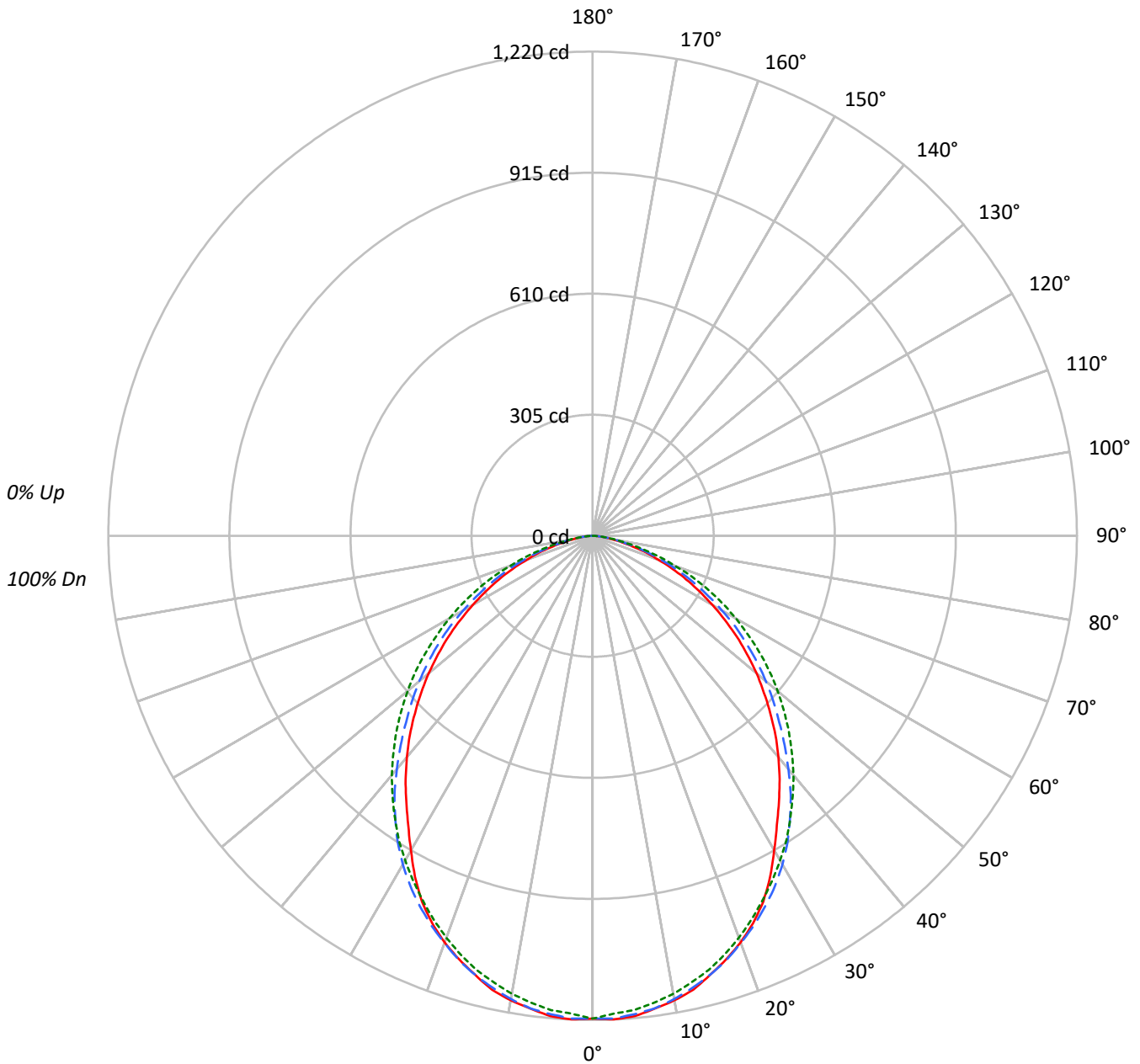
Lumens per Lamp: N/A
Luminaire Lumens: 2813.0 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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°	6547	6547	6547
5°	6565	6537	6481
10°	6495	6477	6403
15°	6380	6380	6307
20°	6245	6253	6172
25°	6039	6114	6017
30°	5687	5942	5870
35°	5374	5696	5706
40°	5113	5388	5529
45°	4820	5062	5322
50°	4512	4770	5095
55°	4161	4438	4819
60°	3748	4049	4482
65°	3310	3601	4076
70°	2758	3067	3463
75°	2167	2450	2712
80°	1550	1723	1912
85°	1013	1013	951



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.5	4.1
10°-20°	321.8	11.4
20°-30°	470.2	16.7
30°-40°	533.8	19.0
40°-50°	515.3	18.3
50°-60°	425.1	15.1
60°-70°	283.1	10.1
70°-80°	126.6	4.5
80°-90°	22.7	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°	906.5	32.2
0°-40°	1440.3	51.2
0°-60°	2380.6	84.6
0°-90°	2813.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2813.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1216	1216	1216	1216	1216	
5°	1215	1215	1210	1204	1200	115
15°	1145	1148	1145	1140	1132	323
25°	1017	1025	1030	1022	1013	466
35°	818	829	867	872	868	512
45°	633	644	665	695	699	489
55°	444	451	473	499	514	396
65°	260	267	283	303	320	258
75°	104	110	118	123	130	114
85°	16	16	16	15	15	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1216.5	1216.5	1216.5	1216.5	1216.5
2.5°	1219.8	1220.3	1217.5	1210.0	1205.3
5°	1215.1	1214.7	1210.0	1203.5	1199.7
7.5°	1201.6	1202.5	1201.1	1191.8	1186.6
10°	1188.5	1189.0	1185.2	1177.8	1171.7
12.5°	1171.7	1171.2	1166.1	1162.3	1152.5
15°	1145.0	1147.8	1145.0	1139.9	1132.0
17.5°	1119.3	1119.3	1121.2	1112.3	1106.3
20°	1090.4	1091.8	1091.8	1084.8	1077.7
22.5°	1056.7	1060.9	1062.3	1054.8	1046.4
25°	1017.0	1024.9	1029.6	1022.1	1013.2
27.5°	968.8	981.0	995.0	989.4	979.6
30°	915.1	932.9	956.2	951.6	944.5
32.5°	864.2	881.9	914.2	912.3	908.6
35°	817.9	829.1	867.0	871.6	868.4
37.5°	774.0	784.2	819.8	830.5	827.7
40°	727.7	738.9	766.9	786.1	787.0
42.5°	681.9	692.6	715.5	743.1	743.1
45°	633.3	644.0	665.1	695.4	699.2
47.5°	585.6	596.8	617.4	647.8	653.8
50°	538.9	549.2	569.7	599.2	608.5
52.5°	490.3	501.5	521.6	548.7	562.2
55°	443.5	451.0	473.0	499.1	513.6
57.5°	394.9	401.9	426.7	449.1	464.1
60°	348.2	357.1	376.2	399.1	416.4
62.5°	303.3	312.7	329.0	349.1	368.8
65°	259.9	266.9	282.8	302.9	320.1
67.5°	217.8	223.9	239.8	253.8	272.0
70°	175.3	183.2	194.9	208.4	220.1
72.5°	141.1	144.4	154.2	164.0	176.2
75°	104.2	109.8	117.8	123.4	130.4
77.5°	74.8	78.0	82.7	87.4	93.9
80°	50.0	51.4	55.6	56.6	61.7
82.5°	30.4	31.3	32.2	32.7	34.6
85°	16.4	16.4	16.4	15.4	15.4
87.5°	9.3	9.3	7.9	6.5	4.7
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)