

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: P555306

Luminaire Tested: **FUSL-12-2-LD4-2STD-40-UNV-93-94-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: P555306
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-LD4-2STD-40-UNV-93-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

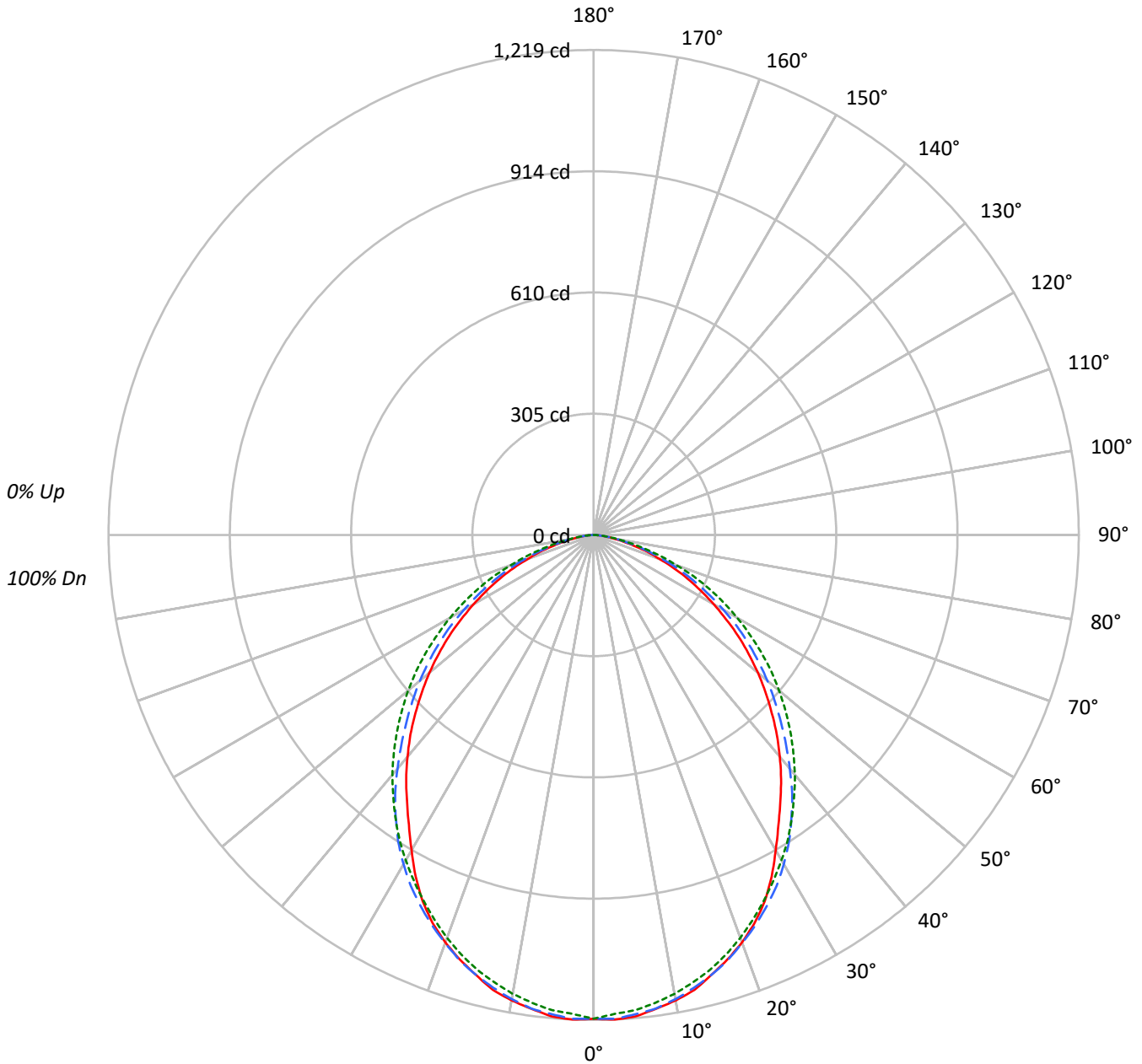
Lumens per Lamp: N/A
Luminaire Lumens: 2812.0 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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

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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°	6545	6545	6545
5°	6562	6535	6479
10°	6493	6475	6401
15°	6377	6377	6305
20°	6243	6251	6171
25°	6037	6112	6015
30°	5685	5940	5868
35°	5372	5694	5704
40°	5110	5387	5528
45°	4819	5060	5319
50°	4510	4768	5093
55°	4160	4436	4818
60°	3747	4048	4481
65°	3309	3600	4075
70°	2757	3065	3463
75°	2167	2447	2709
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°	321.7	11.4
20°-30°	470.1	16.7
30°-40°	533.6	19.0
40°-50°	515.1	18.3
50°-60°	424.9	15.1
60°-70°	283.0	10.1
70°-80°	126.6	4.5
80°-90°	22.6	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°	906.2	32.2
0°-40°	1439.8	51.2
0°-60°	2379.8	84.6
0°-90°	2812.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2812.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1216	1216	1216	1216	1216	
5°	1215	1214	1210	1203	1199	115
15°	1145	1147	1145	1140	1132	323
25°	1017	1025	1029	1022	1013	466
35°	818	829	867	871	868	512
45°	633	644	665	695	699	488
55°	443	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°	1216.1	1216.1	1216.1	1216.1	1216.1
2.5°	1219.4	1219.9	1217.1	1209.6	1204.9
5°	1214.7	1214.2	1209.6	1203.0	1199.3
7.5°	1201.2	1202.1	1200.7	1191.4	1186.2
10°	1188.1	1188.6	1184.8	1177.3	1171.3
12.5°	1171.3	1170.8	1165.7	1161.9	1152.1
15°	1144.6	1147.4	1144.6	1139.5	1131.6
17.5°	1118.9	1118.9	1120.8	1111.9	1105.9
20°	1090.0	1091.4	1091.4	1084.4	1077.4
22.5°	1056.3	1060.5	1061.9	1054.5	1046.1
25°	1016.6	1024.6	1029.2	1021.8	1012.9
27.5°	968.5	980.6	994.7	989.1	979.2
30°	914.8	932.5	955.9	951.2	944.2
32.5°	863.8	881.6	913.8	912.0	908.2
35°	817.6	828.8	866.7	871.3	868.1
37.5°	773.7	784.0	819.5	830.2	827.4
40°	727.4	738.6	766.7	785.8	786.8
42.5°	681.6	692.4	715.3	742.8	742.8
45°	633.1	643.8	664.8	695.2	698.9
47.5°	585.4	596.6	617.2	647.5	653.6
50°	538.7	549.0	569.5	598.9	608.3
52.5°	490.1	501.3	521.4	548.5	562.0
55°	443.4	450.8	472.8	499.0	513.5
57.5°	394.8	401.8	426.6	449.0	463.9
60°	348.1	356.9	376.1	399.0	416.3
62.5°	303.2	312.6	328.9	349.0	368.6
65°	259.8	266.8	282.7	302.7	320.0
67.5°	217.7	223.8	239.7	253.7	271.9
70°	175.2	183.1	194.8	208.4	220.1
72.5°	141.1	144.4	154.2	164.0	176.1
75°	104.2	109.8	117.7	123.3	130.3
77.5°	74.8	78.0	82.7	87.4	93.9
80°	50.0	51.4	55.6	56.5	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)