

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: P555308

Luminaire Tested: **FUSL-12-2-LD4-2STD-40-UNV-93-96-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: P555308
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-93-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

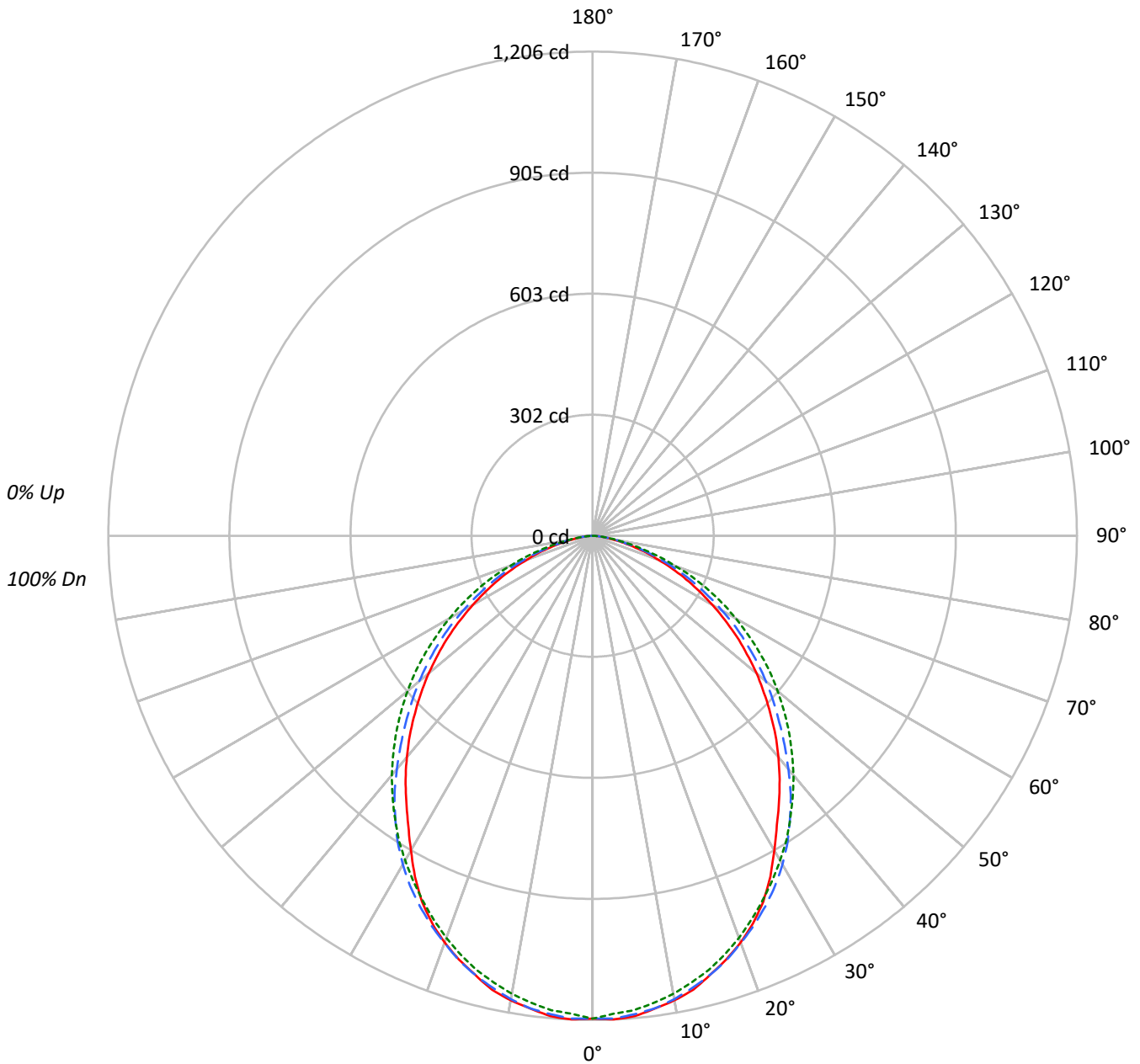
Lumens per Lamp: N/A
Luminaire Lumens: 2781.0 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	6473	6473	6473
5°	6490	6462	6408
10°	6421	6404	6331
15°	6307	6307	6235
20°	6174	6182	6103
25°	5970	6045	5948
30°	5622	5875	5803
35°	5313	5631	5640
40°	5054	5327	5467
45°	4765	5004	5261
50°	4460	4716	5037
55°	4115	4388	4765
60°	3705	4003	4432
65°	3272	3559	4031
70°	2727	3032	3424
75°	2142	2420	2680
80°	1531	1705	1891
85°	1000	1000	939



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.2	4.1
10°-20°	318.1	11.4
20°-30°	464.9	16.7
30°-40°	527.7	19.0
40°-50°	509.4	18.3
50°-60°	420.2	15.1
60°-70°	279.8	10.1
70°-80°	125.2	4.5
80°-90°	22.4	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°	896.2	32.2
0°-40°	1423.9	51.2
0°-60°	2353.5	84.6
0°-90°	2781.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2781.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1203	1203	1203	1203	1203	
5°	1201	1201	1196	1190	1186	114
15°	1132	1135	1132	1127	1119	319
25°	1005	1013	1018	1010	1002	460
35°	809	820	857	862	858	507
45°	626	637	658	688	691	483
55°	438	446	468	494	508	391
65°	257	264	280	299	316	255
75°	103	109	116	122	129	113
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°	1202.7	1202.7	1202.7	1202.7	1202.7
2.5°	1205.9	1206.4	1203.6	1196.2	1191.6
5°	1201.3	1200.9	1196.2	1189.8	1186.1
7.5°	1187.9	1188.8	1187.5	1178.2	1173.1
10°	1175.0	1175.4	1171.8	1164.4	1158.4
12.5°	1158.4	1157.9	1152.8	1149.1	1139.4
15°	1132.0	1134.8	1132.0	1126.9	1119.1
17.5°	1106.6	1106.6	1108.5	1099.7	1093.7
20°	1078.0	1079.3	1079.3	1072.4	1065.5
22.5°	1044.7	1048.8	1050.2	1042.8	1034.5
25°	1005.4	1013.3	1017.9	1010.5	1001.7
27.5°	957.8	969.8	983.7	978.2	968.5
30°	904.7	922.2	945.4	940.7	933.8
32.5°	854.3	871.9	903.8	901.9	898.2
35°	808.6	819.7	857.1	861.7	858.5
37.5°	765.2	775.3	810.4	821.1	818.3
40°	719.4	730.5	758.2	777.2	778.1
42.5°	674.1	684.8	707.4	734.7	734.7
45°	626.1	636.7	657.5	687.5	691.2
47.5°	578.9	590.0	610.4	640.4	646.4
50°	532.7	542.9	563.2	592.3	601.6
52.5°	484.7	495.8	515.6	542.4	555.8
55°	438.5	445.9	467.6	493.5	507.8
57.5°	390.4	397.4	421.8	444.0	458.8
60°	344.2	353.0	371.9	394.6	411.7
62.5°	299.9	309.1	325.3	345.1	364.6
65°	256.9	263.8	279.5	299.4	316.5
67.5°	215.3	221.3	237.0	250.9	268.9
70°	173.3	181.1	192.7	206.1	217.6
72.5°	139.5	142.8	152.5	162.2	174.2
75°	103.0	108.6	116.4	122.0	128.9
77.5°	73.9	77.2	81.8	86.4	92.9
80°	49.4	50.8	55.0	55.9	61.0
82.5°	30.0	31.0	31.9	32.3	34.2
85°	16.2	16.2	16.2	15.2	15.2
87.5°	9.2	9.2	7.9	6.5	4.6
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)