

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: P554720

Luminaire Tested: **FUSL-12-2-LD4-2HI-35-UNV-93-84-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: P554720
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-LD4-2HI-35-UNV-93-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

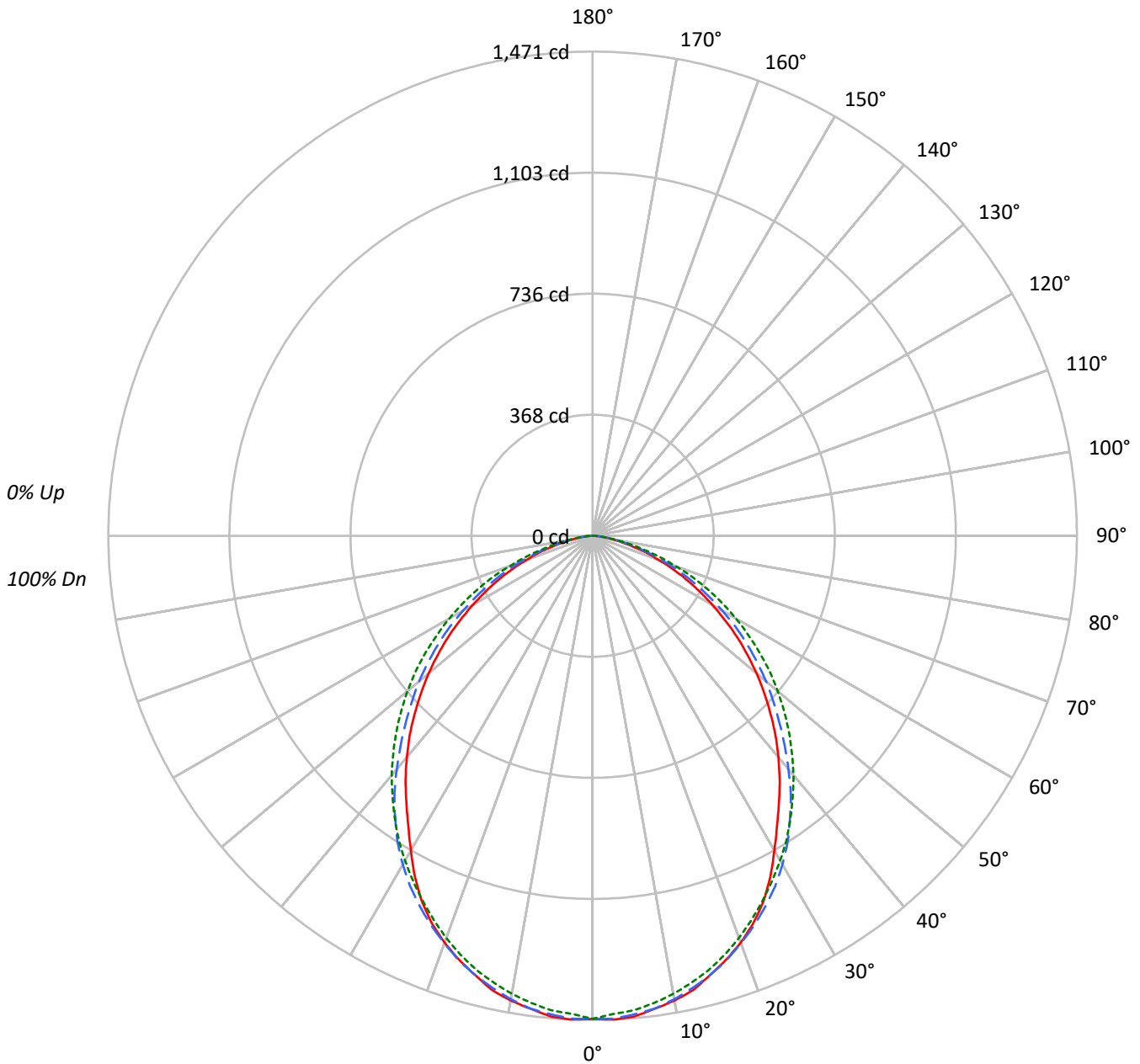
Lumens per Lamp: N/A
Luminaire Lumens: 3393.0 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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°	7897	7897	7897
5°	7918	7885	7818
10°	7835	7813	7724
15°	7695	7695	7608
20°	7533	7542	7446
25°	7285	7375	7258
30°	6860	7168	7080
35°	6481	6870	6882
40°	6166	6499	6669
45°	5814	6106	6419
50°	5442	5754	6146
55°	5020	5353	5813
60°	4521	4885	5407
65°	3991	4344	4918
70°	3327	3699	4178
75°	2614	2955	3271
80°	1869	2080	2306
85°	1216	1216	1149



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.2	4.1
10°-20°	388.1	11.4
20°-30°	567.2	16.7
30°-40°	643.8	19.0
40°-50°	621.5	18.3
50°-60°	512.7	15.1
60°-70°	341.4	10.1
70°-80°	152.8	4.5
80°-90°	27.3	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°	1093.5	32.2
0°-40°	1737.3	51.2
0°-60°	2871.5	84.6
0°-90°	3393.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3393.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1467	1467	1467	1467	1467	
5°	1466	1465	1460	1452	1447	139
15°	1381	1384	1381	1375	1365	389
25°	1227	1236	1242	1233	1222	562
35°	986	1000	1046	1051	1047	618
45°	764	777	802	839	843	589
55°	535	544	570	602	620	478
65°	313	322	341	365	386	311
75°	126	132	142	149	157	137
85°	20	20	20	19	19	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1467.4	1467.4	1467.4	1467.4	1467.4
2.5°	1471.3	1471.9	1468.5	1459.5	1453.9
5°	1465.7	1465.1	1459.5	1451.6	1447.1
7.5°	1449.3	1450.5	1448.8	1437.5	1431.3
10°	1433.6	1434.1	1429.6	1420.6	1413.3
12.5°	1413.3	1412.7	1406.5	1402.0	1390.2
15°	1381.1	1384.5	1381.1	1374.9	1365.4
17.5°	1350.1	1350.1	1352.4	1341.7	1334.3
20°	1315.2	1316.9	1316.9	1308.4	1300.0
22.5°	1274.6	1279.7	1281.4	1272.3	1262.2
25°	1226.7	1236.3	1241.9	1232.9	1222.2
27.5°	1168.6	1183.3	1200.2	1193.4	1181.6
30°	1103.8	1125.2	1153.4	1147.8	1139.3
32.5°	1042.3	1063.8	1102.7	1100.4	1095.9
35°	986.5	1000.1	1045.7	1051.4	1047.4
37.5°	933.5	945.9	988.8	1001.7	998.4
40°	877.7	891.3	925.1	948.2	949.3
42.5°	822.5	835.4	863.1	896.3	896.3
45°	763.9	776.8	802.2	838.8	843.3
47.5°	706.4	719.9	744.7	781.3	788.7
50°	650.0	662.4	687.2	722.7	734.0
52.5°	591.4	604.9	629.1	661.8	678.2
55°	535.0	544.0	570.5	602.1	619.5
57.5°	476.4	484.8	514.7	541.7	559.8
60°	420.0	430.7	453.8	481.4	502.3
62.5°	365.9	377.1	396.9	421.1	444.8
65°	313.4	321.9	341.1	365.3	386.2
67.5°	262.7	270.0	289.2	306.1	328.1
70°	211.4	221.0	235.1	251.4	265.5
72.5°	170.2	174.2	186.0	197.9	212.5
75°	125.7	132.5	142.1	148.8	157.3
77.5°	90.2	94.1	99.8	105.4	113.3
80°	60.3	62.0	67.1	68.2	74.4
82.5°	36.6	37.8	38.9	39.5	41.7
85°	19.7	19.7	19.7	18.6	18.6
87.5°	11.3	11.3	9.6	7.9	5.6
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)