

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: P555814

Luminaire Tested: **FUSL-12-2-LD4-3LO-40-UNV-93-87-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: P555814
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-40-UNV-93-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

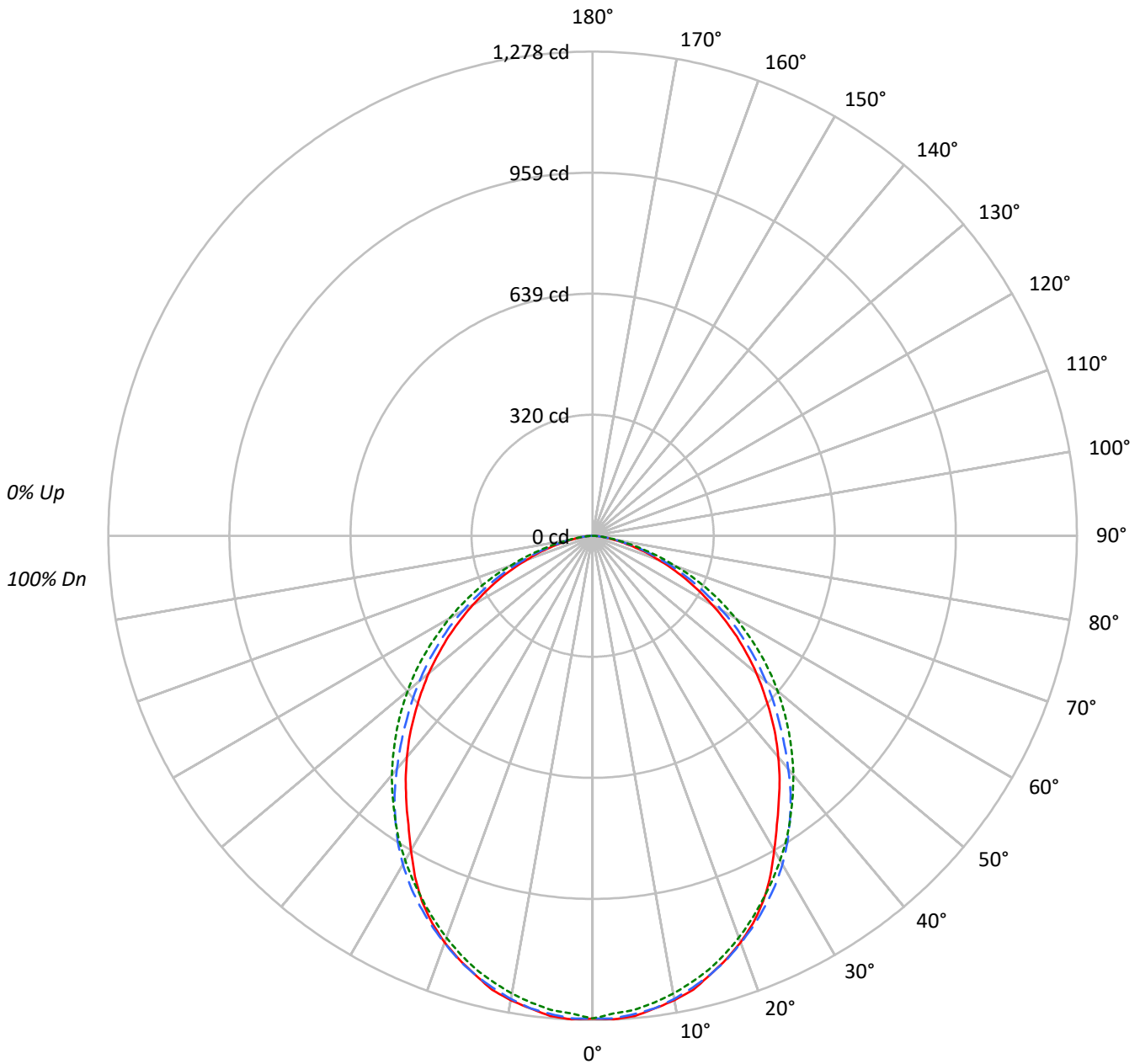
Lumens per Lamp: N/A
Luminaire Lumens: 2946.0 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
Input Voltage (V): NR
Input Current (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°	6857	6857	6857
5°	6875	6846	6788
10°	6802	6784	6706
15°	6682	6682	6605
20°	6540	6549	6464
25°	6325	6403	6302
30°	5956	6223	6147
35°	5628	5966	5975
40°	5354	5643	5791
45°	5048	5301	5573
50°	4725	4996	5336
55°	4358	4647	5047
60°	3925	4241	4694
65°	3465	3771	4270
70°	2888	3212	3627
75°	2269	2564	2840
80°	1624	1804	2002
85°	1056	1056	1000



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.0	4.1
10°-20°	337.0	11.4
20°-30°	492.5	16.7
30°-40°	559.0	19.0
40°-50°	539.6	18.3
50°-60°	445.1	15.1
60°-70°	296.4	10.1
70°-80°	132.6	4.5
80°-90°	23.7	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°	949.4	32.2
0°-40°	1508.4	51.2
0°-60°	2493.2	84.6
0°-90°	2946.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2946.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1274	1274	1274	1274	1274	
5°	1273	1272	1267	1260	1256	120
15°	1199	1202	1199	1194	1186	338
25°	1065	1073	1078	1070	1061	488
35°	857	868	908	913	909	537
45°	663	674	696	728	732	512
55°	464	472	495	523	538	415
65°	272	280	296	317	335	270
75°	109	115	123	129	137	119
85°	17	17	17	16	16	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1274.1	1274.1	1274.1	1274.1	1274.1
2.5°	1277.5	1278.0	1275.0	1267.2	1262.3
5°	1272.6	1272.1	1267.2	1260.4	1256.4
7.5°	1258.4	1259.4	1257.9	1248.1	1242.7
10°	1244.7	1245.2	1241.3	1233.4	1227.1
12.5°	1227.1	1226.6	1221.2	1217.3	1207.0
15°	1199.2	1202.1	1199.2	1193.8	1185.5
17.5°	1172.3	1172.3	1174.2	1164.9	1158.6
20°	1141.9	1143.4	1143.4	1136.0	1128.7
22.5°	1106.7	1111.1	1112.5	1104.7	1095.9
25°	1065.1	1073.4	1078.3	1070.5	1061.2
27.5°	1014.7	1027.4	1042.1	1036.2	1025.9
30°	958.4	977.0	1001.4	996.5	989.2
32.5°	905.0	923.6	957.4	955.4	951.5
35°	856.6	868.3	908.0	912.8	909.4
37.5°	810.5	821.3	858.5	869.8	866.8
40°	762.1	773.8	803.2	823.3	824.3
42.5°	714.1	725.4	749.4	778.2	778.2
45°	663.2	674.5	696.5	728.3	732.2
47.5°	613.3	625.0	646.6	678.4	684.8
50°	564.3	575.1	596.7	627.5	637.3
52.5°	513.4	525.2	546.2	574.6	588.8
55°	464.5	472.3	495.3	522.7	537.9
57.5°	413.6	420.9	446.9	470.4	486.0
60°	364.6	373.9	394.0	418.0	436.1
62.5°	317.7	327.4	344.6	365.6	386.2
65°	272.1	279.5	296.1	317.2	335.3
67.5°	228.1	234.5	251.1	265.8	284.9
70°	183.5	191.9	204.1	218.3	230.5
72.5°	147.8	151.2	161.5	171.8	184.5
75°	109.1	115.0	123.3	129.2	136.6
77.5°	78.3	81.7	86.6	91.5	98.4
80°	52.4	53.8	58.2	59.2	64.6
82.5°	31.8	32.8	33.8	34.3	36.2
85°	17.1	17.1	17.1	16.2	16.2
87.5°	9.8	9.8	8.3	6.9	4.9
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)