

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: P556607

Luminaire Tested: **FUSL-12-4-LD4-1LO-50-UNV-80-97-EDD**

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: P556607
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-12-4-LD4-1LO-50-UNV-80-97-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

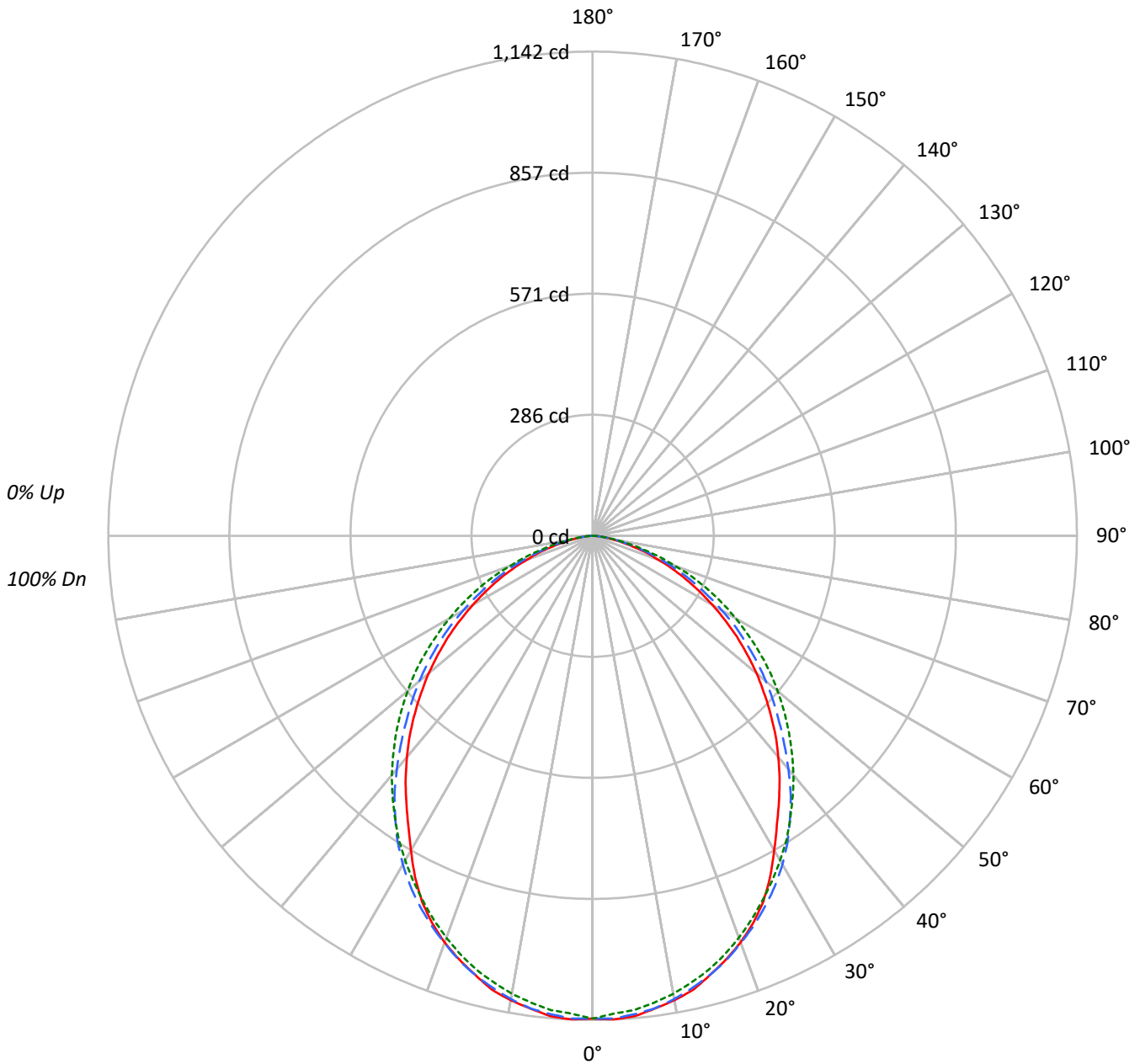
Lumens per Lamp: N/A
Luminaire Lumens: 2633.0 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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°	3064	3064	3064
5°	3072	3059	3034
10°	3040	3031	2997
15°	2986	2986	2952
20°	2923	2926	2889
25°	2826	2861	2816
30°	2661	2781	2747
35°	2515	2666	2670
40°	2393	2522	2588
45°	2256	2369	2490
50°	2112	2233	2385
55°	1947	2077	2256
60°	1754	1896	2098
65°	1549	1685	1908
70°	1290	1435	1621
75°	1015	1146	1269
80°	725	807	894
85°	472	472	445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.2	4.1
10°-20°	301.2	11.4
20°-30°	440.1	16.7
30°-40°	499.6	19.0
40°-50°	482.3	18.3
50°-60°	397.9	15.1
60°-70°	264.9	10.1
70°-80°	118.6	4.5
80°-90°	21.2	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°	848.5	32.2
0°-40°	1348.2	51.2
0°-60°	2228.3	84.6
0°-90°	2633.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2633.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1139	1139	1139	1139	1139	
5°	1137	1137	1133	1126	1123	108
15°	1072	1074	1072	1067	1060	302
25°	952	959	964	957	948	436
35°	766	776	812	816	813	480
45°	593	603	622	651	654	457
55°	415	422	443	467	481	371
65°	243	250	265	284	300	241
75°	98	103	110	116	122	107
85°	15	15	15	14	14	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1138.7	1138.7	1138.7	1138.7	1138.7
2.5°	1141.8	1142.2	1139.6	1132.6	1128.2
5°	1137.4	1137.0	1132.6	1126.5	1123.0
7.5°	1124.7	1125.6	1124.3	1115.5	1110.7
10°	1112.5	1112.9	1109.4	1102.4	1096.7
12.5°	1096.7	1096.3	1091.5	1088.0	1078.8
15°	1071.8	1074.4	1071.8	1067.0	1059.5
17.5°	1047.7	1047.7	1049.5	1041.2	1035.5
20°	1020.6	1021.9	1021.9	1015.3	1008.8
22.5°	989.1	993.0	994.3	987.3	979.5
25°	951.9	959.3	963.7	956.7	948.4
27.5°	906.9	918.2	931.3	926.1	916.9
30°	856.5	873.2	895.0	890.7	884.1
32.5°	808.9	825.5	855.7	853.9	850.4
35°	765.6	776.1	811.5	815.9	812.8
37.5°	724.4	734.1	767.3	777.4	774.7
40°	681.1	691.6	717.9	735.8	736.7
42.5°	638.3	648.3	669.7	695.6	695.6
45°	592.8	602.8	622.5	650.9	654.4
47.5°	548.1	558.6	577.9	606.3	612.0
50°	504.4	514.0	533.3	560.8	569.6
52.5°	458.9	469.4	488.2	513.6	526.3
55°	415.1	422.1	442.7	467.2	480.8
57.5°	369.7	376.2	399.4	420.4	434.4
60°	325.9	334.2	352.2	373.6	389.8
62.5°	283.9	292.7	308.0	326.8	345.2
65°	243.2	249.8	264.7	283.5	299.7
67.5°	203.9	209.5	224.4	237.5	254.6
70°	164.0	171.5	182.4	195.1	206.0
72.5°	132.1	135.2	144.4	153.5	164.9
75°	97.6	102.8	110.2	115.5	122.1
77.5°	70.0	73.1	77.4	81.8	87.9
80°	46.8	48.1	52.1	52.9	57.7
82.5°	28.4	29.3	30.2	30.6	32.4
85°	15.3	15.3	15.3	14.4	14.4
87.5°	8.7	8.7	7.4	6.1	4.4
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)