

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: P555327

Luminaire Tested: **FUSL-12-2-LD4-2STD-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: P555327
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-50-UNV-80-97-EDD
Description: 2FT 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

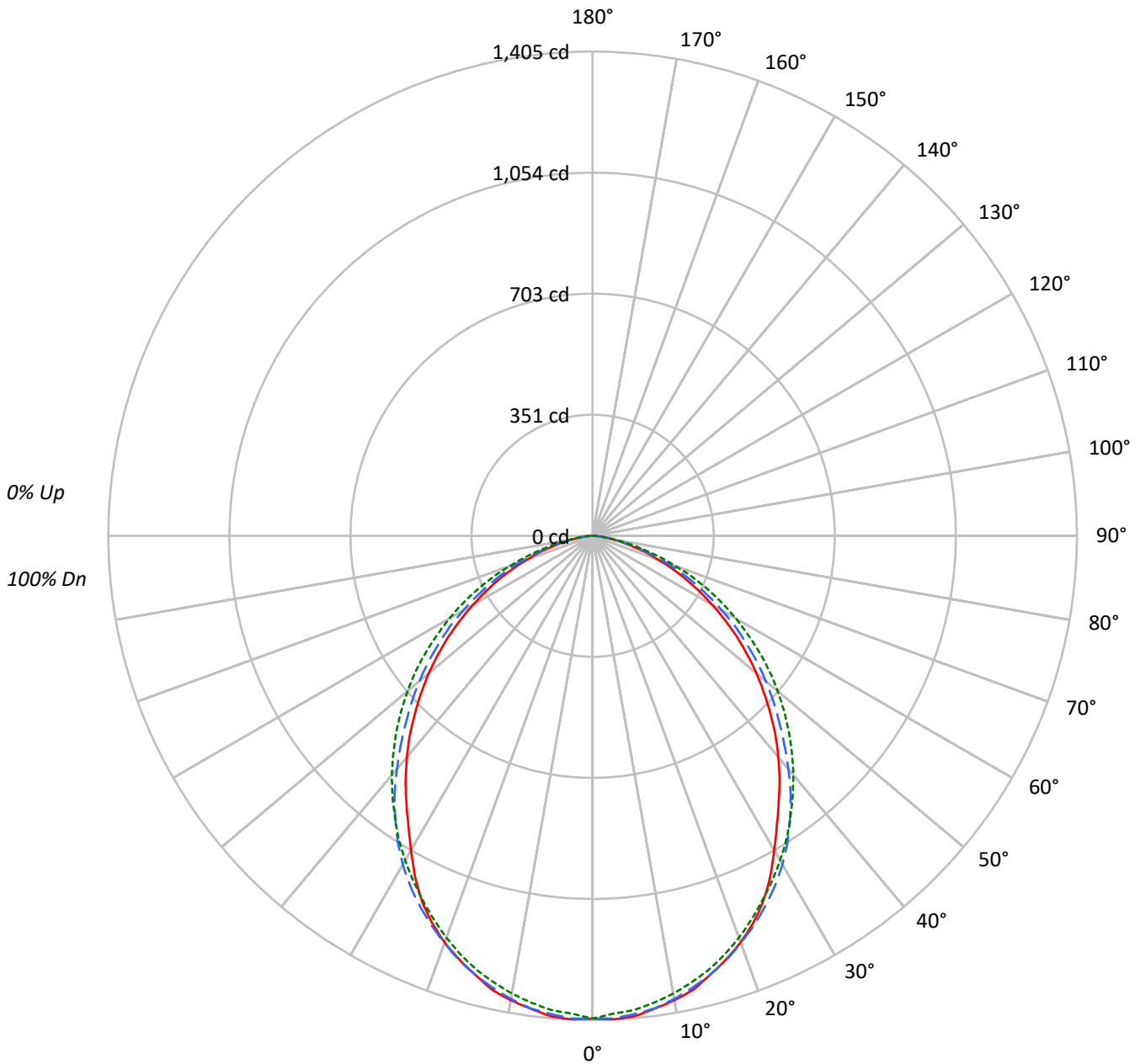
Lumens per Lamp: N/A
Luminaire Lumens: 3239.0 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	7539	7539	7539
5°	7559	7527	7463
10°	7479	7458	7373
15°	7346	7346	7262
20°	7191	7200	7108
25°	6954	7040	6928
30°	6548	6842	6759
35°	6187	6559	6569
40°	5887	6204	6367
45°	5550	5829	6128
50°	5195	5493	5867
55°	4792	5110	5549
60°	4315	4663	5161
65°	3810	4146	4694
70°	3175	3531	3989
75°	2495	2820	3121
80°	1785	1984	2201
85°	1161	1161	1099



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.9	4.1
10°-20°	370.5	11.4
20°-30°	541.4	16.7
30°-40°	614.6	19.0
40°-50°	593.3	18.3
50°-60°	489.4	15.1
60°-70°	325.9	10.1
70°-80°	145.9	4.5
80°-90°	26.1	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°	1043.8	32.2
0°-40°	1658.4	51.2
0°-60°	2741.2	84.6
0°-90°	3239.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3239.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1401	1401	1401	1401	1401	
5°	1399	1399	1393	1386	1381	132
15°	1318	1322	1318	1312	1303	372
25°	1171	1180	1186	1177	1167	536
35°	942	955	998	1004	1000	590
45°	729	742	766	801	805	563
55°	511	519	545	575	591	456
65°	299	307	326	349	369	297
75°	120	126	136	142	150	131
85°	19	19	19	18	18	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1400.8	1400.8	1400.8	1400.8	1400.8
2.5°	1404.6	1405.1	1401.9	1393.2	1387.9
5°	1399.2	1398.6	1393.2	1385.7	1381.4
7.5°	1383.6	1384.6	1383.0	1372.3	1366.3
10°	1368.5	1369.0	1364.7	1356.1	1349.1
12.5°	1349.1	1348.6	1342.7	1338.4	1327.1
15°	1318.4	1321.7	1318.4	1312.5	1303.4
17.5°	1288.9	1288.9	1291.0	1280.8	1273.8
20°	1255.5	1257.1	1257.1	1249.0	1241.0
22.5°	1216.7	1221.6	1223.2	1214.6	1204.9
25°	1171.0	1180.1	1185.5	1176.9	1166.7
27.5°	1115.6	1129.6	1145.7	1139.2	1127.9
30°	1053.7	1074.1	1101.0	1095.7	1087.6
32.5°	995.0	1015.5	1052.6	1050.5	1046.1
35°	941.7	954.7	998.3	1003.6	999.9
37.5°	891.2	903.0	943.9	956.3	953.0
40°	837.9	850.8	883.1	905.2	906.2
42.5°	785.1	797.5	823.9	855.6	855.6
45°	729.2	741.6	765.8	800.8	805.1
47.5°	674.3	687.2	710.9	745.9	752.9
50°	620.5	632.3	656.0	689.9	700.7
52.5°	564.5	577.4	600.6	631.8	647.4
55°	510.7	519.3	544.6	574.7	591.4
57.5°	454.7	462.8	491.3	517.2	534.4
60°	400.9	411.1	433.2	459.6	479.5
62.5°	349.3	360.0	378.9	402.0	424.6
65°	299.2	307.3	325.6	348.7	368.6
67.5°	250.8	257.8	276.1	292.2	313.2
70°	201.8	211.0	224.4	240.0	253.5
72.5°	162.5	166.3	177.6	188.9	202.9
75°	120.0	126.5	135.6	142.1	150.1
77.5°	86.1	89.9	95.3	100.6	108.2
80°	57.6	59.2	64.0	65.1	71.0
82.5°	35.0	36.1	37.1	37.7	39.8
85°	18.8	18.8	18.8	17.8	17.8
87.5°	10.8	10.8	9.1	7.5	5.4
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)