

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: P555057

Luminaire Tested: **FUSL-12-2-LD4-2LO-50-UNV-80-84-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: P555057
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-LD4-2LO-50-UNV-80-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

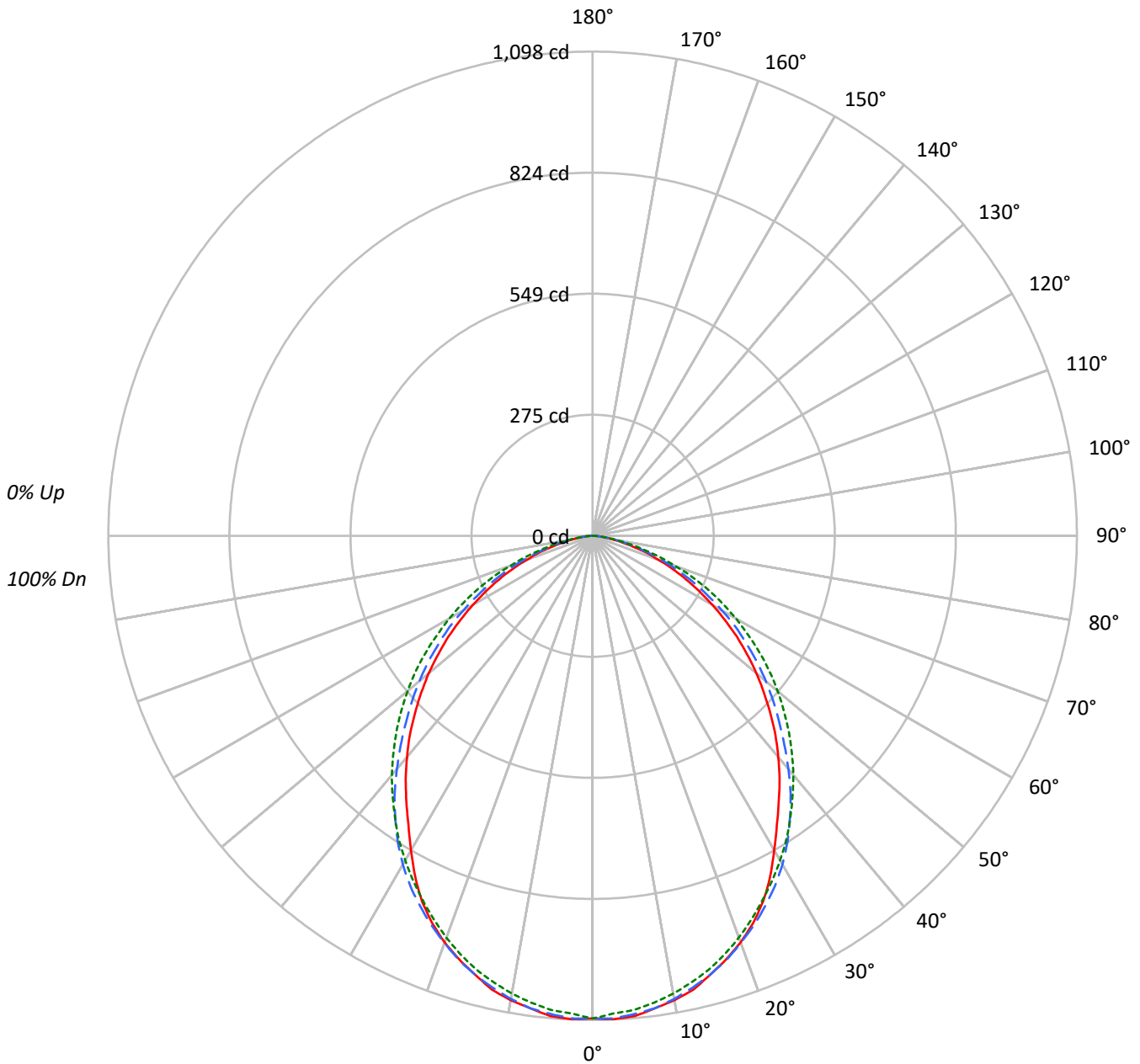
Lumens per Lamp: N/A
Luminaire Lumens: 2531.0 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (Ain): 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°	5891	5891	5891
5°	5907	5882	5832
10°	5844	5828	5761
15°	5741	5741	5675
20°	5619	5626	5554
25°	5434	5501	5414
30°	5117	5347	5282
35°	4835	5125	5133
40°	4600	4848	4975
45°	4337	4555	4788
50°	4060	4292	4584
55°	3745	3993	4336
60°	3372	3644	4033
65°	2977	3240	3669
70°	2482	2760	3117
75°	1951	2204	2439
80°	1395	1550	1720
85°	908	908	858



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.1	4.1
10°-20°	289.5	11.4
20°-30°	423.1	16.7
30°-40°	480.2	19.0
40°-50°	463.6	18.3
50°-60°	382.4	15.1
60°-70°	254.7	10.1
70°-80°	114.0	4.5
80°-90°	20.4	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°	815.7	32.2
0°-40°	1295.9	51.2
0°-60°	2142.0	84.6
0°-90°	2531.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2531.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1095	1095	1095	1095	1095	
5°	1093	1093	1089	1083	1080	103
15°	1030	1033	1030	1026	1018	290
25°	915	922	926	920	912	419
35°	736	746	780	784	781	461
45°	570	580	598	626	629	440
55°	399	406	426	449	462	356
65°	234	240	254	272	288	232
75°	94	99	106	111	117	103
85°	15	15	15	14	14	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1094.6	1094.6	1094.6	1094.6	1094.6
2.5°	1097.5	1098.0	1095.4	1088.7	1084.5
5°	1093.3	1092.9	1088.7	1082.8	1079.5
7.5°	1081.1	1082.0	1080.7	1072.3	1067.7
10°	1069.4	1069.8	1066.4	1059.7	1054.2
12.5°	1054.2	1053.8	1049.2	1045.8	1037.0
15°	1030.3	1032.8	1030.3	1025.6	1018.5
17.5°	1007.1	1007.1	1008.8	1000.8	995.4
20°	981.1	982.3	982.3	976.0	969.7
22.5°	950.8	954.6	955.8	949.1	941.5
25°	915.0	922.2	926.4	919.7	911.7
27.5°	871.7	882.7	895.3	890.2	881.4
30°	823.4	839.3	860.4	856.2	849.9
32.5°	777.5	793.5	822.5	820.8	817.5
35°	735.9	746.0	780.0	784.3	781.3
37.5°	696.4	705.6	737.6	747.2	744.7
40°	654.7	664.8	690.1	707.3	708.1
42.5°	613.5	623.2	643.8	668.6	668.6
45°	569.8	579.5	598.4	625.7	629.1
47.5°	526.9	537.0	555.5	582.8	588.3
50°	484.9	494.1	512.6	539.1	547.5
52.5°	441.1	451.2	469.3	493.7	505.9
55°	399.1	405.8	425.6	449.1	462.1
57.5°	355.3	361.6	383.9	404.1	417.6
60°	313.3	321.3	338.5	359.1	374.7
62.5°	272.9	281.3	296.0	314.1	331.8
65°	233.8	240.1	254.4	272.5	288.1
67.5°	196.0	201.4	215.7	228.3	244.7
70°	157.7	164.8	175.4	187.5	198.1
72.5°	127.0	129.9	138.8	147.6	158.5
75°	93.8	98.8	106.0	111.0	117.3
77.5°	67.3	70.2	74.4	78.6	84.5
80°	45.0	46.3	50.0	50.9	55.5
82.5°	27.3	28.2	29.0	29.4	31.1
85°	14.7	14.7	14.7	13.9	13.9
87.5°	8.4	8.4	7.1	5.9	4.2
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)