

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: P555046

Luminaire Tested: **FUSL-12-2-LD4-2LO-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: P555046
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-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 LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

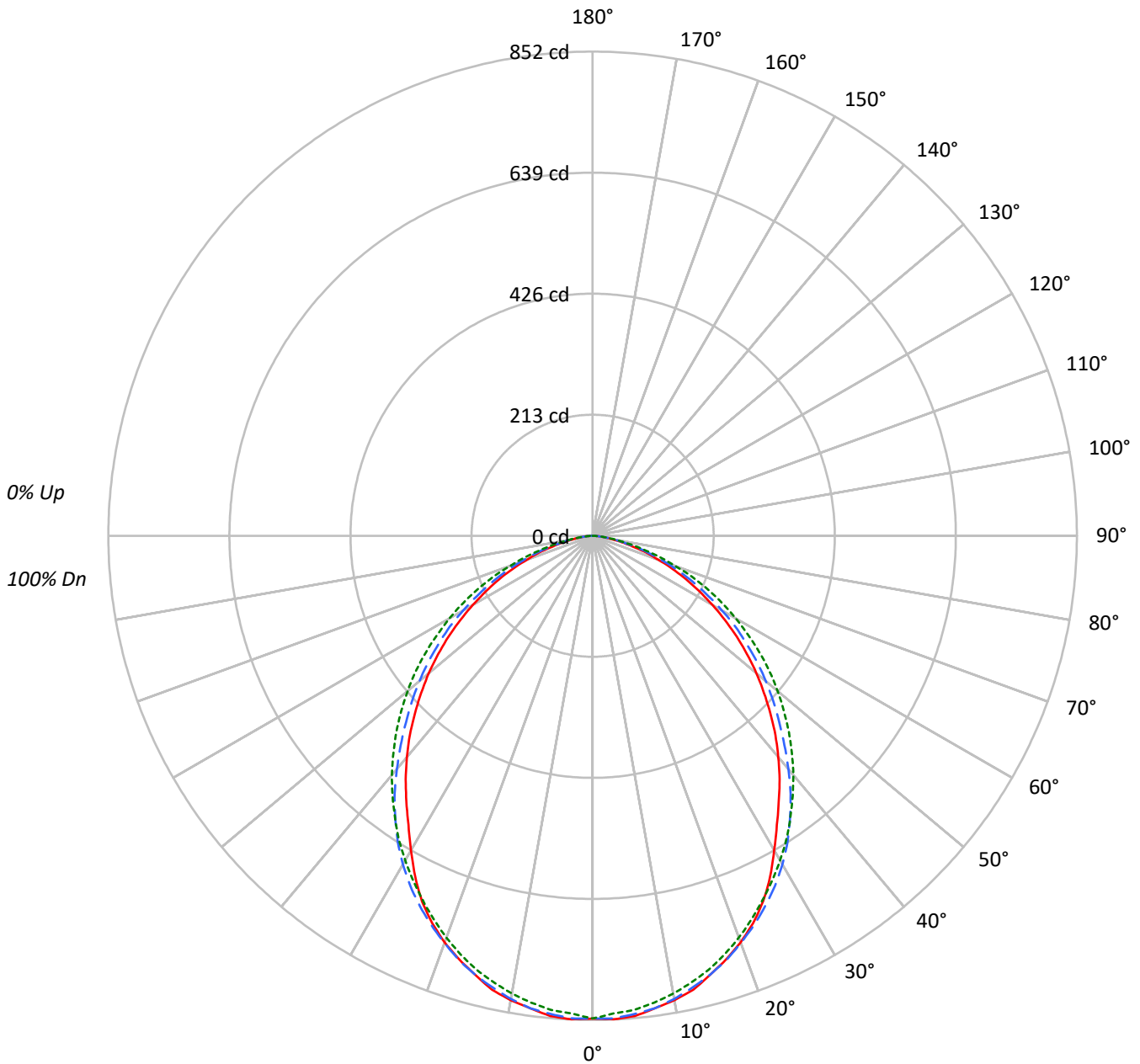
Lumens per Lamp: N/A
Luminaire Lumens: 1964.0 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	4571	4571	4571
5°	4583	4564	4525
10°	4535	4522	4471
15°	4455	4455	4403
20°	4360	4366	4310
25°	4216	4269	4201
30°	3970	4149	4098
35°	3752	3977	3983
40°	3570	3762	3861
45°	3365	3534	3716
50°	3150	3331	3558
55°	2906	3098	3365
60°	2617	2828	3129
65°	2310	2514	2846
70°	1926	2142	2419
75°	1514	1709	1892
80°	1082	1203	1336
85°	704	704	667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.0	4.1
10°-20°	224.7	11.4
20°-30°	328.3	16.7
30°-40°	372.7	19.0
40°-50°	359.8	18.3
50°-60°	296.8	15.1
60°-70°	197.6	10.1
70°-80°	88.4	4.5
80°-90°	15.8	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°	632.9	32.2
0°-40°	1005.6	51.2
0°-60°	1662.1	84.6
0°-90°	1964.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1964.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	849	849	849	849	849	
5°	848	848	845	840	838	80
15°	800	801	800	796	790	225
25°	710	716	719	714	707	325
35°	571	579	605	609	606	358
45°	442	450	464	486	488	341
55°	310	315	330	348	359	276
65°	181	186	197	211	224	180
75°	73	77	82	86	91	80
85°	11	11	11	11	11	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	849.4	849.4	849.4	849.4	849.4
2.5°	851.7	852.0	850.0	844.8	841.5
5°	848.4	848.1	844.8	840.2	837.6
7.5°	838.9	839.6	838.6	832.1	828.5
10°	829.8	830.1	827.5	822.3	818.1
12.5°	818.1	817.7	814.1	811.5	804.7
15°	799.5	801.4	799.5	795.9	790.3
17.5°	781.5	781.5	782.8	776.6	772.4
20°	761.3	762.3	762.3	757.4	752.5
22.5°	737.8	740.7	741.7	736.5	730.6
25°	710.0	715.6	718.9	713.6	707.4
27.5°	676.4	684.9	694.7	690.8	683.9
30°	638.9	651.3	667.6	664.4	659.5
32.5°	603.3	615.7	638.3	637.0	634.3
35°	571.0	578.9	605.3	608.6	606.3
37.5°	540.4	547.5	572.3	579.8	577.9
40°	508.1	515.9	535.5	548.8	549.5
42.5°	476.1	483.6	499.6	518.8	518.8
45°	442.1	449.7	464.3	485.5	488.2
47.5°	408.9	416.7	431.1	452.3	456.5
50°	376.2	383.4	397.8	418.3	424.9
52.5°	342.3	350.1	364.2	383.1	392.5
55°	309.7	314.9	330.2	348.5	358.6
57.5°	275.7	280.6	297.9	313.6	324.0
60°	243.1	249.3	262.7	278.7	290.7
62.5°	211.8	218.3	229.7	243.8	257.5
65°	181.4	186.3	197.4	211.4	223.5
67.5°	152.1	156.3	167.4	177.2	189.9
70°	122.4	127.9	136.1	145.5	153.7
72.5°	98.5	100.8	107.7	114.5	123.0
75°	72.8	76.7	82.2	86.1	91.0
77.5°	52.2	54.5	57.8	61.0	65.6
80°	34.9	35.9	38.8	39.5	43.1
82.5°	21.2	21.9	22.5	22.8	24.1
85°	11.4	11.4	11.4	10.8	10.8
87.5°	6.5	6.5	5.5	4.6	3.3
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)