

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: P558331

Luminaire Tested: **FUSL-12-4-LD4-3STD-40-UNV-80-94-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: P558331
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-LD4-3STD-40-UNV-80-94-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

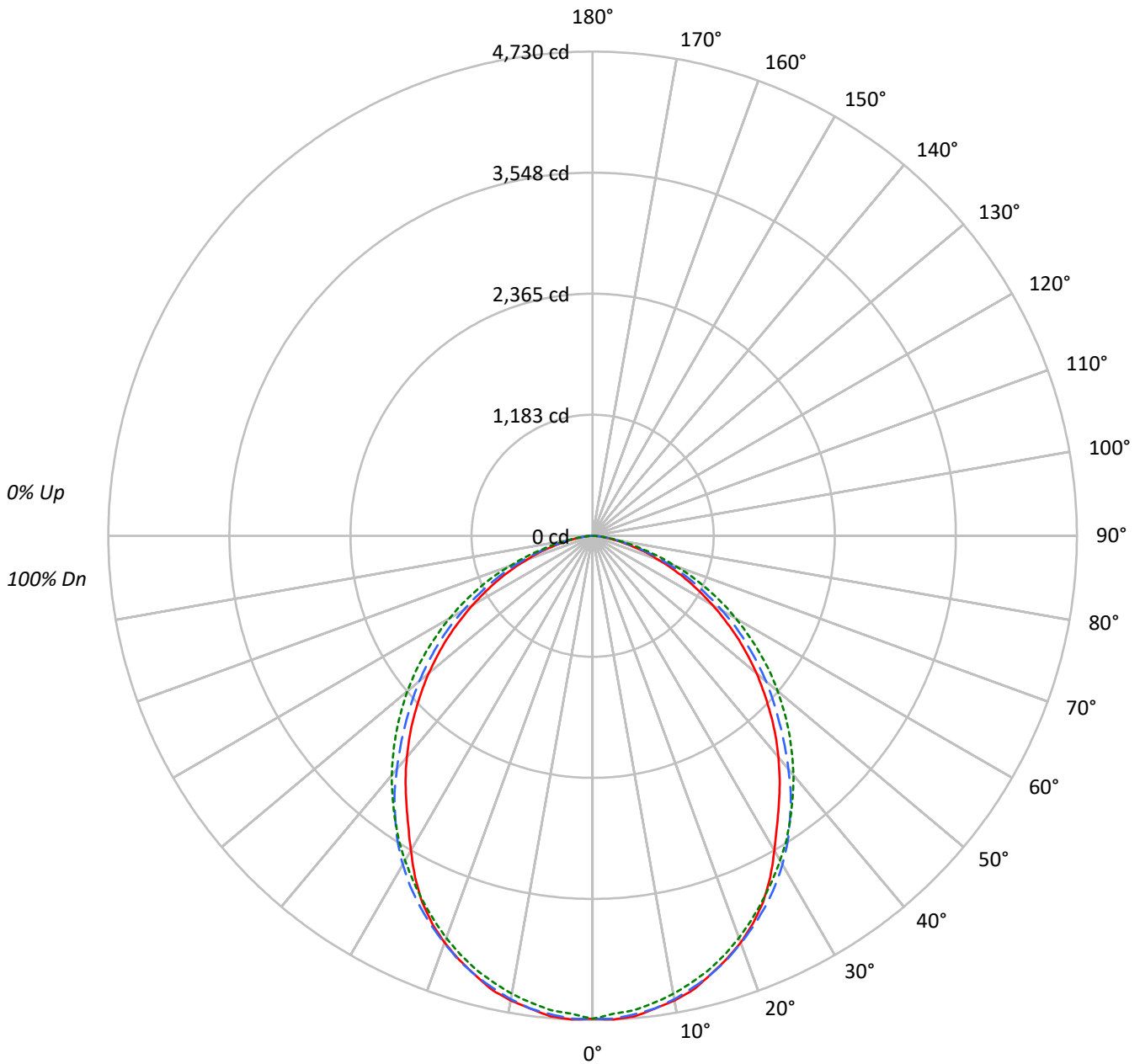
Lumens per Lamp: N/A
Luminaire Lumens: 10909.0 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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°	12696	12696	12696
5°	12729	12676	12568
10°	12594	12560	12416
15°	12371	12371	12230
20°	12109	12125	11969
25°	11710	11856	11667
30°	11027	11523	11382
35°	10420	11045	11063
40°	9913	10448	10722
45°	9346	9815	10319
50°	8749	9249	9879
55°	8070	8605	9345
60°	7267	7852	8691
65°	6416	6982	7905
70°	5348	5947	6717
75°	4203	4748	5258
80°	3005	3343	3707
85°	1958	1958	1846



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	444.2	4.1
10°-20°	1247.9	11.4
20°-30°	1823.6	16.7
30°-40°	2070.0	19.0
40°-50°	1998.2	18.3
50°-60°	1648.4	15.1
60°-70°	1097.7	10.1
70°-80°	491.2	4.5
80°-90°	87.9	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°	3515.7	32.2
0°-40°	5585.6	51.2
0°-60°	9232.2	84.6
0°-90°	10909.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10909.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4718	4718	4718	4718	4718	
5°	4712	4711	4692	4667	4653	446
15°	4441	4451	4441	4421	4390	1252
25°	3944	3975	3993	3964	3929	1806
35°	3172	3215	3362	3380	3368	1987
45°	2456	2498	2579	2697	2712	1895
55°	1720	1749	1834	1936	1992	1535
65°	1008	1035	1096	1174	1242	999
75°	404	426	457	478	506	442
85°	63	63	63	60	60	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4717.9	4717.9	4717.9	4717.9	4717.9
2.5°	4730.5	4732.4	4721.5	4692.5	4674.4
5°	4712.4	4710.6	4692.5	4667.1	4652.6
7.5°	4659.9	4663.5	4658.0	4621.8	4601.9
10°	4609.1	4610.9	4596.4	4567.4	4543.9
12.5°	4543.9	4542.1	4522.1	4507.6	4469.6
15°	4440.6	4451.4	4440.6	4420.6	4389.8
17.5°	4340.9	4340.9	4348.1	4313.7	4290.1
20°	4228.5	4233.9	4233.9	4206.7	4179.6
22.5°	4098.0	4114.3	4119.7	4090.7	4058.1
25°	3943.9	3974.7	3992.9	3963.9	3929.4
27.5°	3757.3	3804.4	3858.7	3837.0	3798.9
30°	3548.8	3617.7	3708.3	3690.2	3663.0
32.5°	3351.3	3420.1	3545.2	3537.9	3523.4
35°	3171.8	3215.3	3362.1	3380.3	3367.6
37.5°	3001.5	3041.3	3179.1	3220.8	3209.9
40°	2822.0	2865.5	2974.3	3048.6	3052.2
42.5°	2644.4	2686.1	2774.9	2881.8	2881.8
45°	2455.9	2497.6	2579.1	2697.0	2711.5
47.5°	2271.0	2314.5	2394.3	2512.1	2535.6
50°	2089.8	2129.7	2209.4	2323.6	2359.8
52.5°	1901.3	1944.8	2022.7	2127.8	2180.4
55°	1720.0	1749.0	1834.2	1935.7	1991.9
57.5°	1531.5	1558.7	1654.8	1741.8	1799.8
60°	1350.3	1384.7	1459.0	1547.8	1614.9
62.5°	1176.3	1212.5	1276.0	1353.9	1430.0
65°	1007.7	1034.9	1096.5	1174.5	1241.5
67.5°	844.6	868.2	929.8	984.2	1054.9
70°	679.7	710.5	755.8	808.4	853.7
72.5°	547.4	560.1	598.1	636.2	683.3
75°	404.2	425.9	456.7	478.5	505.7
77.5°	290.0	302.7	320.8	338.9	364.3
80°	193.9	199.4	215.7	219.3	239.2
82.5°	117.8	121.4	125.1	126.9	134.1
85°	63.4	63.4	63.4	59.8	59.8
87.5°	36.2	36.2	30.8	25.4	18.1
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)