

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: P555304

Luminaire Tested: **FUSL-12-2-LD4-2STD-40-UNV-93-88-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: P555304
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-40-UNV-93-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

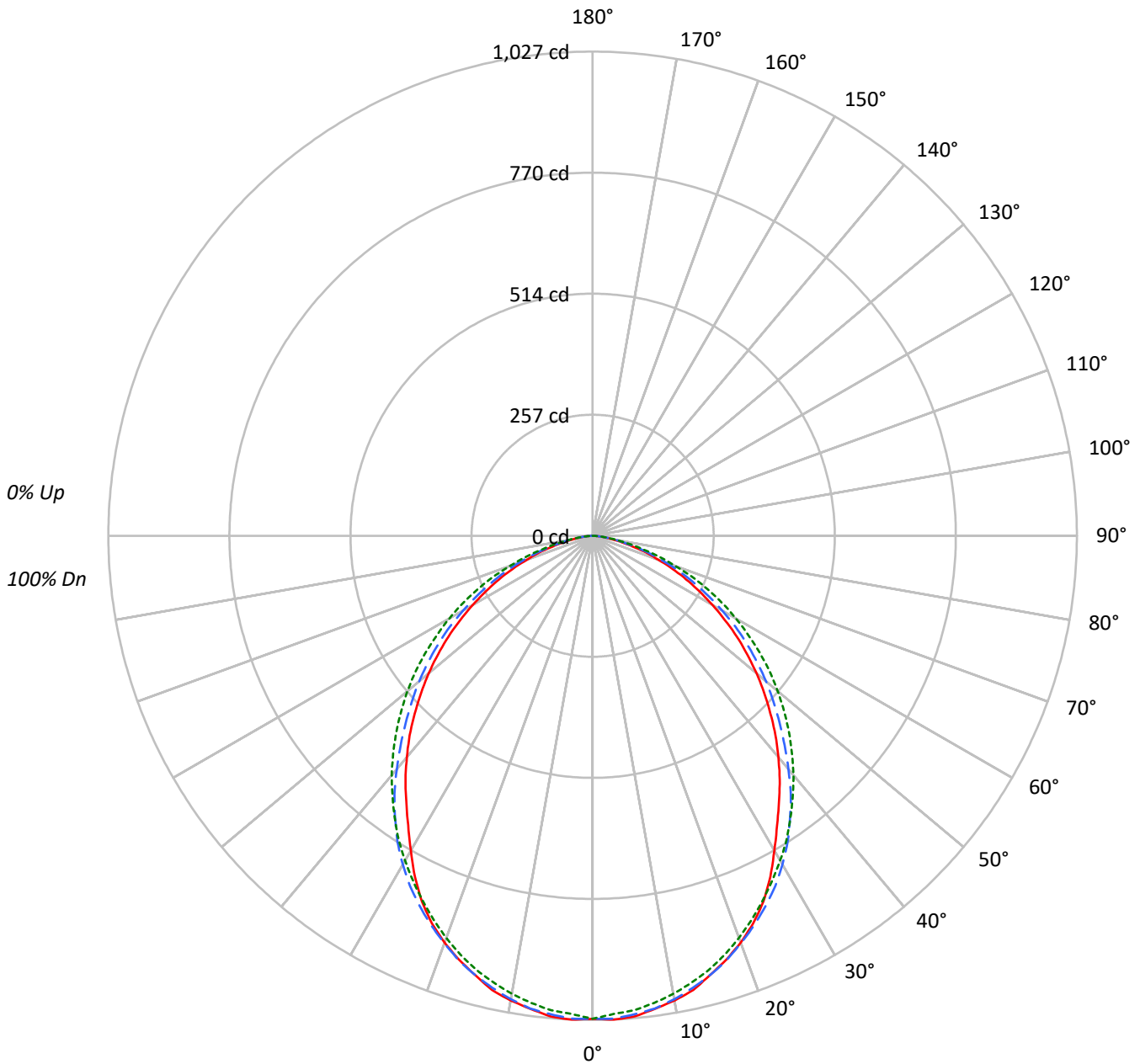
Lumens per Lamp: N/A
Luminaire Lumens: 2369.0 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P555304

CATALOG NUMBER: FUSL-12-2-LD4-2STD-40-UNV-93-88-EDD-90

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°	5514	5514	5514
5°	5529	5505	5459
10°	5470	5455	5392
15°	5373	5373	5312
20°	5259	5266	5198
25°	5086	5149	5067
30°	4790	5005	4944
35°	4526	4797	4805
40°	4305	4538	4657
45°	4059	4263	4481
50°	3800	4017	4291
55°	3505	3737	4059
60°	3156	3410	3775
65°	2786	3032	3433
70°	2323	2582	2917
75°	1826	2063	2283
80°	1305	1450	1612
85°	852	852	803



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.5	4.1
10°-20°	271.0	11.4
20°-30°	396.0	16.7
30°-40°	449.5	19.0
40°-50°	433.9	18.3
50°-60°	358.0	15.1
60°-70°	238.4	10.1
70°-80°	106.7	4.5
80°-90°	19.1	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°	763.5	32.2
0°-40°	1213.0	51.2
0°-60°	2004.9	84.6
0°-90°	2369.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2369.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1024	1024	1024	1024	1024	
5°	1023	1023	1019	1014	1010	97
15°	964	967	964	960	953	272
25°	856	863	867	861	853	392
35°	689	698	730	734	731	432
45°	533	542	560	586	589	411
55°	374	380	398	420	433	333
65°	219	225	238	255	270	217
75°	88	92	99	104	110	96
85°	14	14	14	13	13	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1024.5	1024.5	1024.5	1024.5	1024.5
2.5°	1027.3	1027.7	1025.3	1019.0	1015.1
5°	1023.4	1023.0	1019.0	1013.5	1010.4
7.5°	1011.9	1012.7	1011.5	1003.7	999.3
10°	1000.9	1001.3	998.2	991.9	986.7
12.5°	986.7	986.4	982.0	978.9	970.6
15°	964.3	966.7	964.3	960.0	953.3
17.5°	942.7	942.7	944.2	936.8	931.6
20°	918.3	919.4	919.4	913.5	907.6
22.5°	889.9	893.5	894.6	888.3	881.3
25°	856.5	863.2	867.1	860.8	853.3
27.5°	815.9	826.2	838.0	833.2	825.0
30°	770.7	785.6	805.3	801.4	795.5
32.5°	727.8	742.7	769.9	768.3	765.2
35°	688.8	698.2	730.1	734.1	731.3
37.5°	651.8	660.5	690.4	699.4	697.1
40°	612.8	622.3	645.9	662.0	662.8
42.5°	574.3	583.3	602.6	625.8	625.8
45°	533.3	542.4	560.1	585.7	588.8
47.5°	493.2	502.6	519.9	545.5	550.6
50°	453.8	462.5	479.8	504.6	512.5
52.5°	412.9	422.3	439.3	462.1	473.5
55°	373.5	379.8	398.3	420.4	432.6
57.5°	332.6	338.5	359.4	378.2	390.8
60°	293.2	300.7	316.8	336.1	350.7
62.5°	255.4	263.3	277.1	294.0	310.5
65°	218.8	224.7	238.1	255.1	269.6
67.5°	183.4	188.5	201.9	213.7	229.1
70°	147.6	154.3	164.1	175.5	185.4
72.5°	118.9	121.6	129.9	138.2	148.4
75°	87.8	92.5	99.2	103.9	109.8
77.5°	63.0	65.7	69.7	73.6	79.1
80°	42.1	43.3	46.8	47.6	52.0
82.5°	25.6	26.4	27.2	27.6	29.1
85°	13.8	13.8	13.8	13.0	13.0
87.5°	7.9	7.9	6.7	5.5	3.9
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)