

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: P558399

Luminaire Tested: **FUSL-12-4-LD4-3STD-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: P558399
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-50-UNV-80-97-EDD
Description: 4FT 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

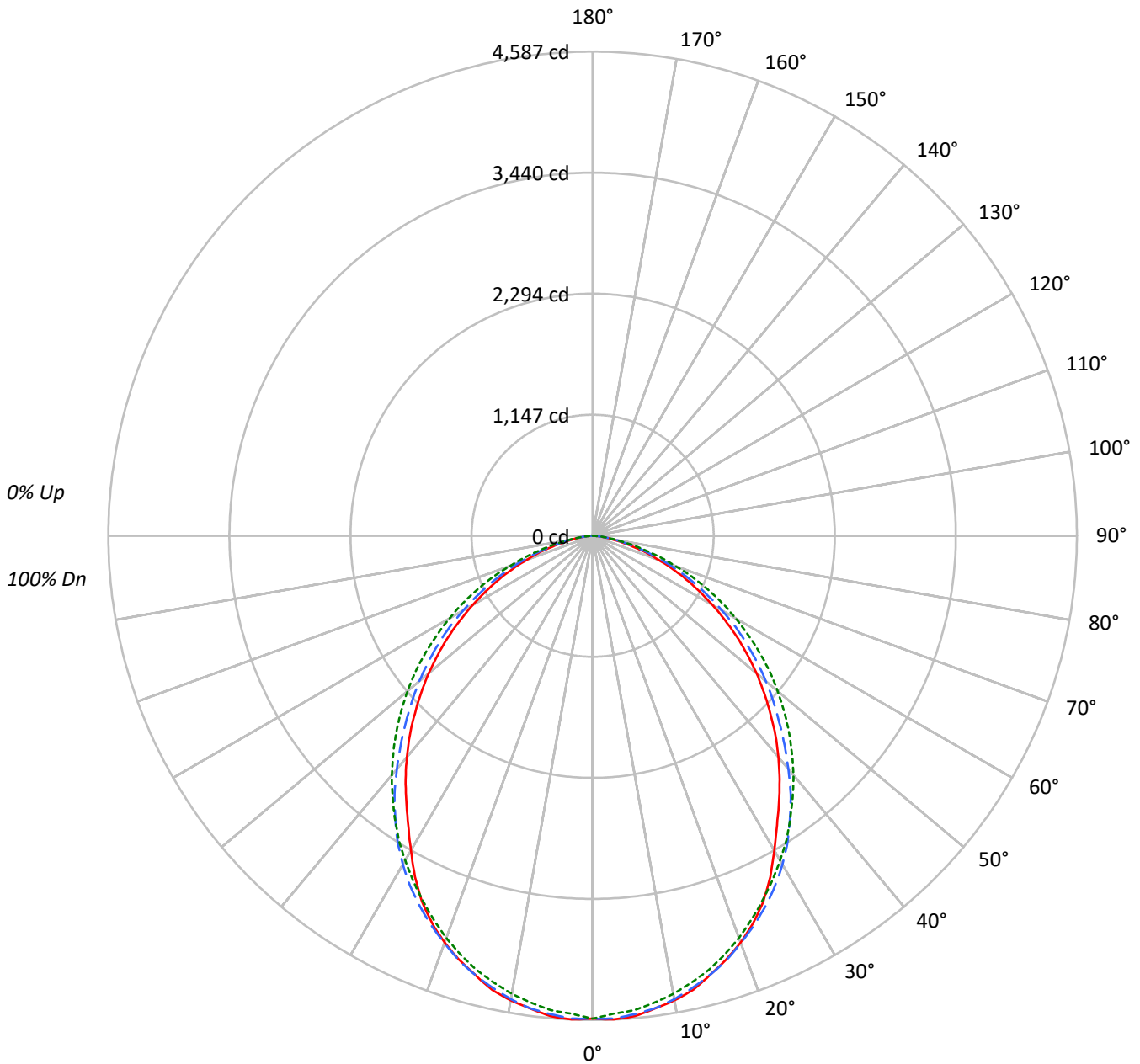
Lumens per Lamp: N/A
Luminaire Lumens: 10578.0 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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					20					
RC	80					70					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°	12310	12310	12310
5°	12343	12291	12186
10°	12212	12179	12039
15°	11996	11996	11858
20°	11742	11757	11606
25°	11355	11496	11313
30°	10692	11173	11037
35°	10104	10710	10727
40°	9612	10131	10397
45°	9063	9517	10006
50°	8483	8969	9579
55°	7825	8344	9062
60°	7047	7614	8428
65°	6222	6770	7666
70°	5186	5766	6513
75°	4075	4605	5098
80°	2915	3240	3595
85°	1899	1899	1791



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.7	4.1
10°-20°	1210.0	11.4
20°-30°	1768.2	16.7
30°-40°	2007.1	19.0
40°-50°	1937.6	18.3
50°-60°	1598.4	15.1
60°-70°	1064.4	10.1
70°-80°	476.3	4.5
80°-90°	85.2	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°	3409.0	32.2
0°-40°	5416.1	51.2
0°-60°	8952.1	84.6
0°-90°	10578.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10578.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4575	4575	4575	4575	4575	
5°	4569	4568	4550	4526	4511	432
15°	4306	4316	4306	4286	4257	1214
25°	3824	3854	3872	3844	3810	1751
35°	3076	3118	3260	3278	3265	1927
45°	2381	2422	2501	2615	2629	1837
55°	1668	1696	1779	1877	1932	1489
65°	977	1004	1063	1139	1204	969
75°	392	413	443	464	490	429
85°	62	62	62	58	58	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4574.7	4574.7	4574.7	4574.7	4574.7
2.5°	4587.0	4588.8	4578.2	4550.1	4532.5
5°	4569.4	4567.7	4550.1	4525.5	4511.4
7.5°	4518.5	4522.0	4516.7	4481.6	4462.2
10°	4469.3	4471.0	4457.0	4428.8	4406.0
12.5°	4406.0	4404.2	4384.9	4370.8	4333.9
15°	4305.8	4316.4	4305.8	4286.5	4256.6
17.5°	4209.2	4209.2	4216.2	4182.8	4159.9
20°	4100.2	4105.5	4105.5	4079.1	4052.7
22.5°	3973.7	3989.5	3994.7	3966.6	3935.0
25°	3824.3	3854.1	3871.7	3843.6	3810.2
27.5°	3643.2	3688.9	3741.7	3720.6	3683.7
30°	3441.1	3507.9	3595.8	3578.2	3551.9
32.5°	3249.6	3316.4	3437.6	3430.6	3416.5
35°	3075.6	3117.8	3260.1	3277.7	3265.4
37.5°	2910.4	2949.0	3082.6	3123.0	3112.5
40°	2736.4	2778.6	2884.0	2956.1	2959.6
42.5°	2564.2	2604.6	2690.7	2794.4	2794.4
45°	2381.4	2421.8	2500.9	2615.1	2629.2
47.5°	2202.1	2244.3	2321.6	2435.9	2458.7
50°	2026.4	2065.0	2142.4	2253.1	2288.2
52.5°	1843.6	1885.8	1961.3	2063.3	2114.2
55°	1667.8	1696.0	1778.6	1877.0	1931.5
57.5°	1485.1	1511.4	1604.6	1688.9	1745.2
60°	1309.3	1342.7	1414.8	1500.9	1565.9
62.5°	1140.6	1175.8	1237.3	1312.8	1386.6
65°	977.2	1003.5	1063.3	1138.8	1203.9
67.5°	819.0	841.8	901.6	954.3	1022.9
70°	659.1	688.9	732.9	783.8	827.8
72.5°	530.8	543.1	580.0	616.9	662.6
75°	391.9	413.0	442.9	464.0	490.3
77.5°	281.2	293.5	311.1	328.6	353.3
80°	188.1	193.3	209.1	212.7	232.0
82.5°	114.2	117.8	121.3	123.0	130.1
85°	61.5	61.5	61.5	58.0	58.0
87.5°	35.1	35.1	29.9	24.6	17.6
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)