

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: P557783

Luminaire Tested: **FUSL-12-4-LD4-3HI-35-UNV-82-87-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: P557783
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-LD4-3HI-35-UNV-82-87-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

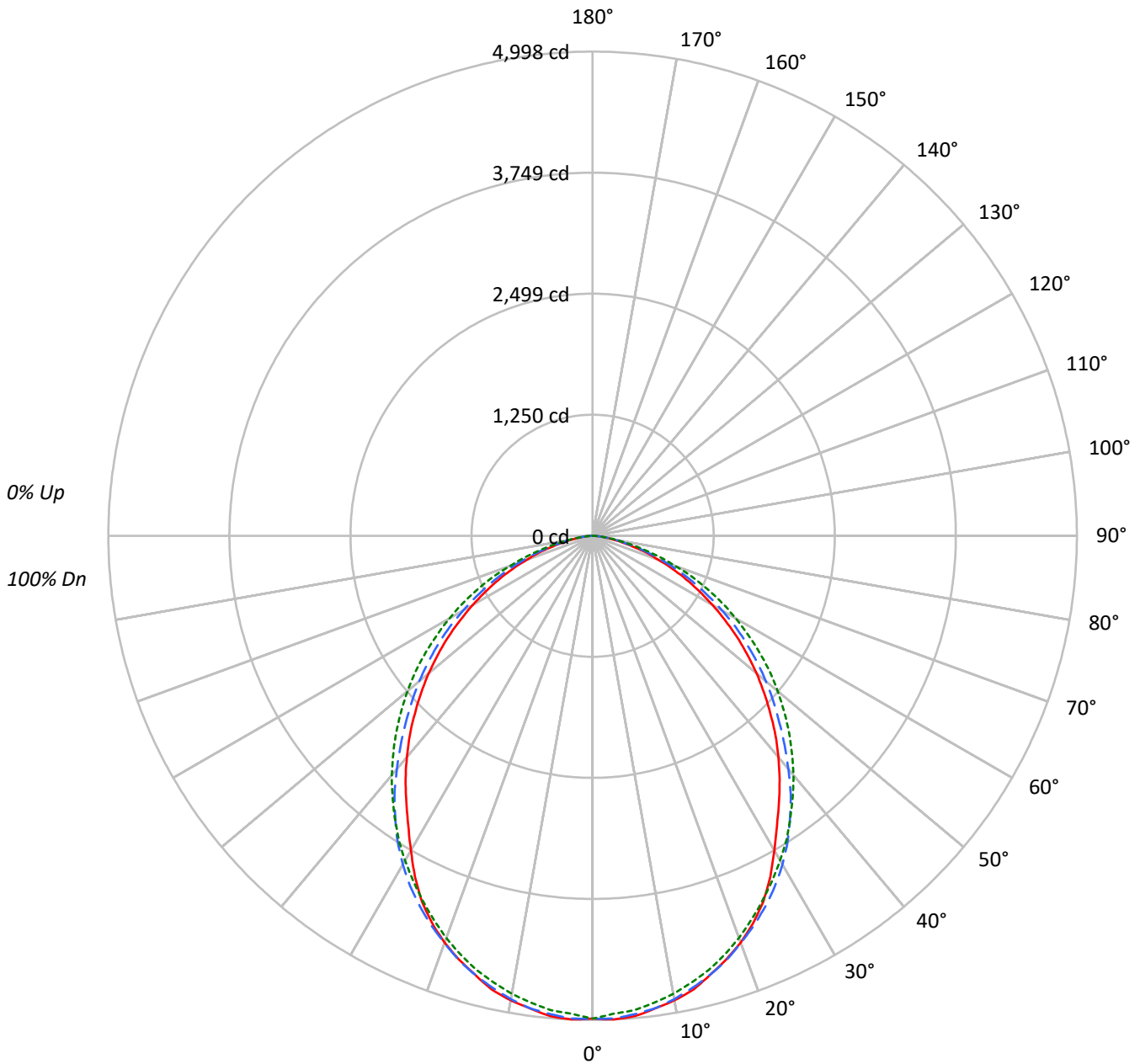
Lumens per Lamp: N/A
Luminaire Lumens: 11526.0 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 129.6
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

TEST NUMBER: P557783

CATALOG NUMBER: FUSL-12-4-LD4-3HI-35-UNV-82-87-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P557783

CATALOG NUMBER: FUSL-12-4-LD4-3HI-35-UNV-82-87-EDD

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°	13414	13414	13414
5°	13450	13393	13279
10°	13307	13270	13118
15°	13071	13071	12921
20°	12794	12810	12646
25°	12373	12526	12327
30°	11651	12175	12026
35°	11009	11670	11688
40°	10474	11039	11328
45°	9875	10370	10902
50°	9244	9773	10438
55°	8526	9092	9874
60°	7678	8297	9183
65°	6779	7377	8353
70°	5650	6283	7097
75°	4440	5018	5555
80°	3175	3532	3918
85°	2069	2069	1951



TEST NUMBER: P557783

CATALOG NUMBER: FUSL-12-4-LD4-3HI-35-UNV-82-87-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.3	4.1
10°-20°	1318.5	11.4
20°-30°	1926.7	16.7
30°-40°	2187.0	19.0
40°-50°	2111.2	18.3
50°-60°	1741.6	15.1
60°-70°	1159.8	10.1
70°-80°	519.0	4.5
80°-90°	92.8	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°	3714.5	32.2
0°-40°	5901.5	51.2
0°-60°	9754.4	84.6
0°-90°	11526.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11526.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4985	4985	4985	4985	4985	
5°	4979	4977	4958	4931	4916	471
15°	4692	4703	4692	4671	4638	1323
25°	4167	4200	4219	4188	4152	1908
35°	3351	3397	3552	3571	3558	2100
45°	2595	2639	2725	2850	2865	2002
55°	1817	1848	1938	2045	2105	1622
65°	1065	1094	1159	1241	1312	1056
75°	427	450	483	506	534	467
85°	67	67	67	63	63	90
90°	0	0	0	0	0	



TEST NUMBER: P557783

CATALOG NUMBER: FUSL-12-4-LD4-3HI-35-UNV-82-87-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4984.7	4984.7	4984.7	4984.7	4984.7
2.5°	4998.1	5000.0	4988.5	4957.9	4938.7
5°	4979.0	4977.0	4957.9	4931.1	4915.8
7.5°	4923.4	4927.2	4921.5	4883.2	4862.1
10°	4869.8	4871.7	4856.4	4825.8	4800.9
12.5°	4800.9	4798.9	4777.9	4762.6	4722.3
15°	4691.7	4703.2	4691.7	4670.6	4638.1
17.5°	4586.4	4586.4	4594.0	4557.7	4532.8
20°	4467.7	4473.4	4473.4	4444.7	4415.9
22.5°	4329.8	4347.0	4352.8	4322.1	4287.6
25°	4167.0	4199.6	4218.7	4188.1	4151.7
27.5°	3969.8	4019.5	4077.0	4054.0	4013.8
30°	3749.5	3822.3	3918.1	3898.9	3870.2
32.5°	3540.8	3613.6	3745.7	3738.0	3722.7
35°	3351.2	3397.2	3552.3	3571.4	3558.0
37.5°	3171.2	3213.3	3358.9	3402.9	3391.4
40°	2981.6	3027.6	3142.5	3221.0	3224.8
42.5°	2794.0	2838.0	2931.8	3044.8	3044.8
45°	2594.8	2638.8	2725.0	2849.5	2864.8
47.5°	2399.5	2445.4	2529.7	2654.2	2679.1
50°	2208.0	2250.1	2334.4	2455.0	2493.3
52.5°	2008.8	2054.8	2137.1	2248.2	2303.7
55°	1817.3	1848.0	1938.0	2045.2	2104.6
57.5°	1618.2	1646.9	1748.4	1840.3	1901.6
60°	1426.7	1463.0	1541.6	1635.4	1706.2
62.5°	1242.8	1281.1	1348.1	1430.5	1510.9
65°	1064.7	1093.5	1158.6	1240.9	1311.8
67.5°	892.4	917.3	982.4	1039.8	1114.5
70°	718.1	750.7	798.5	854.1	902.0
72.5°	578.3	591.7	631.9	672.2	721.9
75°	427.0	450.0	482.6	505.6	534.3
77.5°	306.4	319.8	339.0	358.1	384.9
80°	204.9	210.6	227.9	231.7	252.8
82.5°	124.5	128.3	132.1	134.0	141.7
85°	67.0	67.0	67.0	63.2	63.2
87.5°	38.3	38.3	32.6	26.8	19.1
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)