

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: P554260

Luminaire Tested: **FUSL-12-2-LD4-1LO-40-UNV-82-86-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: P554260
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-LD4-1LO-40-UNV-82-86-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

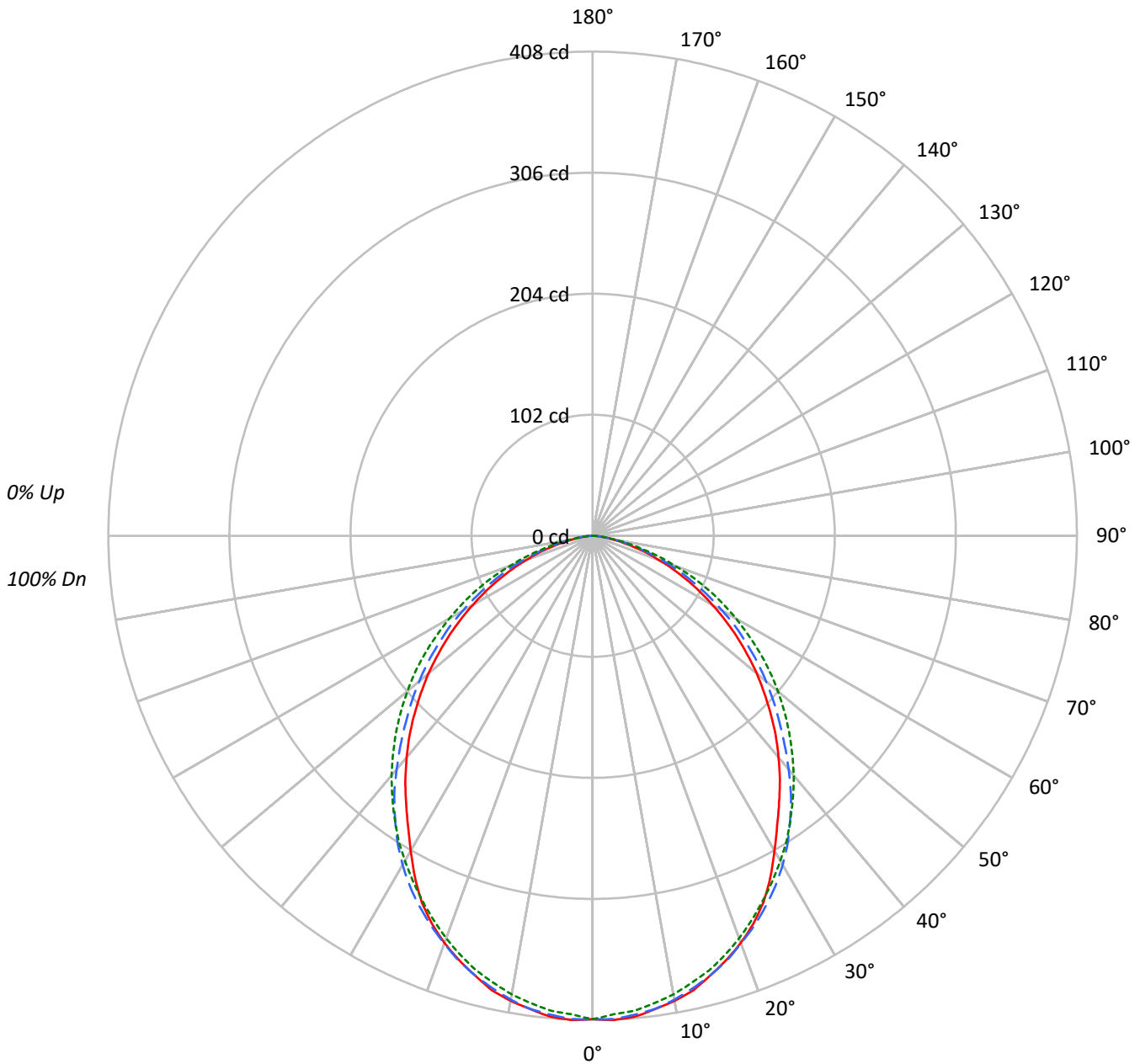
Lumens per Lamp: N/A
Luminaire Lumens: 942.0 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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: P554260

CATALOG NUMBER: FUSL-12-2-LD4-1LO-40-UNV-82-86-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P554260

CATALOG NUMBER: FUSL-12-2-LD4-1LO-40-UNV-82-86-EDD-90

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			100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86			86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73			73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63			63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54			54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47			47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42			42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37			37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34			34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30			30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28			28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2193	2193	2193
5°	2198	2189	2171
10°	2175	2169	2144
15°	2136	2136	2112
20°	2091	2094	2067
25°	2023	2048	2015
30°	1904	1990	1966
35°	1800	1907	1911
40°	1712	1804	1852
45°	1614	1695	1782
50°	1511	1598	1706
55°	1393	1486	1614
60°	1255	1356	1500
65°	1108	1206	1365
70°	924	1028	1160
75°	726	819	909
80°	518	576	642
85°	340	340	321



TEST NUMBER: P554260

CATALOG NUMBER: FUSL-12-2-LD4-1LO-40-UNV-82-86-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.4	4.1
10°-20°	107.8	11.4
20°-30°	157.5	16.7
30°-40°	178.7	19.0
40°-50°	172.5	18.3
50°-60°	142.3	15.1
60°-70°	94.8	10.1
70°-80°	42.4	4.5
80°-90°	7.6	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°	303.6	32.2
0°-40°	482.3	51.2
0°-60°	797.2	84.6
0°-90°	942.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	942.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	407	407	407	407	407	
5°	407	407	405	403	402	39
15°	383	384	383	382	379	108
25°	341	343	345	342	339	156
35°	274	278	290	292	291	172
45°	212	216	223	233	234	164
55°	148	151	158	167	172	133
65°	87	89	95	101	107	86
75°	35	37	39	41	44	38
85°	6	6	6	5	5	7
90°	0	0	0	0	0	



TEST NUMBER: P554260

CATALOG NUMBER: FUSL-12-2-LD4-1LO-40-UNV-82-86-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	407.4	407.4	407.4	407.4	407.4
2.5°	408.5	408.6	407.7	405.2	403.6
5°	406.9	406.8	405.2	403.0	401.8
7.5°	402.4	402.7	402.2	399.1	397.4
10°	398.0	398.2	396.9	394.4	392.4
12.5°	392.4	392.2	390.5	389.2	385.9
15°	383.4	384.4	383.4	381.7	379.1
17.5°	374.8	374.8	375.5	372.5	370.5
20°	365.1	365.6	365.6	363.3	360.9
22.5°	353.9	355.3	355.7	353.2	350.4
25°	340.6	343.2	344.8	342.3	339.3
27.5°	324.4	328.5	333.2	331.3	328.0
30°	306.4	312.4	320.2	318.7	316.3
32.5°	289.4	295.3	306.1	305.5	304.3
35°	273.9	277.6	290.3	291.9	290.8
37.5°	259.2	262.6	274.5	278.1	277.2
40°	243.7	247.4	256.8	263.2	263.6
42.5°	228.3	231.9	239.6	248.8	248.8
45°	212.1	215.7	222.7	232.9	234.1
47.5°	196.1	199.9	206.7	216.9	219.0
50°	180.5	183.9	190.8	200.6	203.8
52.5°	164.2	167.9	174.7	183.7	188.3
55°	148.5	151.0	158.4	167.2	172.0
57.5°	132.2	134.6	142.9	150.4	155.4
60°	116.6	119.6	126.0	133.7	139.4
62.5°	101.6	104.7	110.2	116.9	123.5
65°	87.0	89.4	94.7	101.4	107.2
67.5°	72.9	75.0	80.3	85.0	91.1
70°	58.7	61.4	65.3	69.8	73.7
72.5°	47.3	48.4	51.6	54.9	59.0
75°	34.9	36.8	39.4	41.3	43.7
77.5°	25.0	26.1	27.7	29.3	31.5
80°	16.7	17.2	18.6	18.9	20.7
82.5°	10.2	10.5	10.8	11.0	11.6
85°	5.5	5.5	5.5	5.2	5.2
87.5°	3.1	3.1	2.7	2.2	1.6
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)