

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: P554964

Luminaire Tested: **FUSL-12-2-LD4-2LO-35-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: P554964
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-LD4-2LO-35-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 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

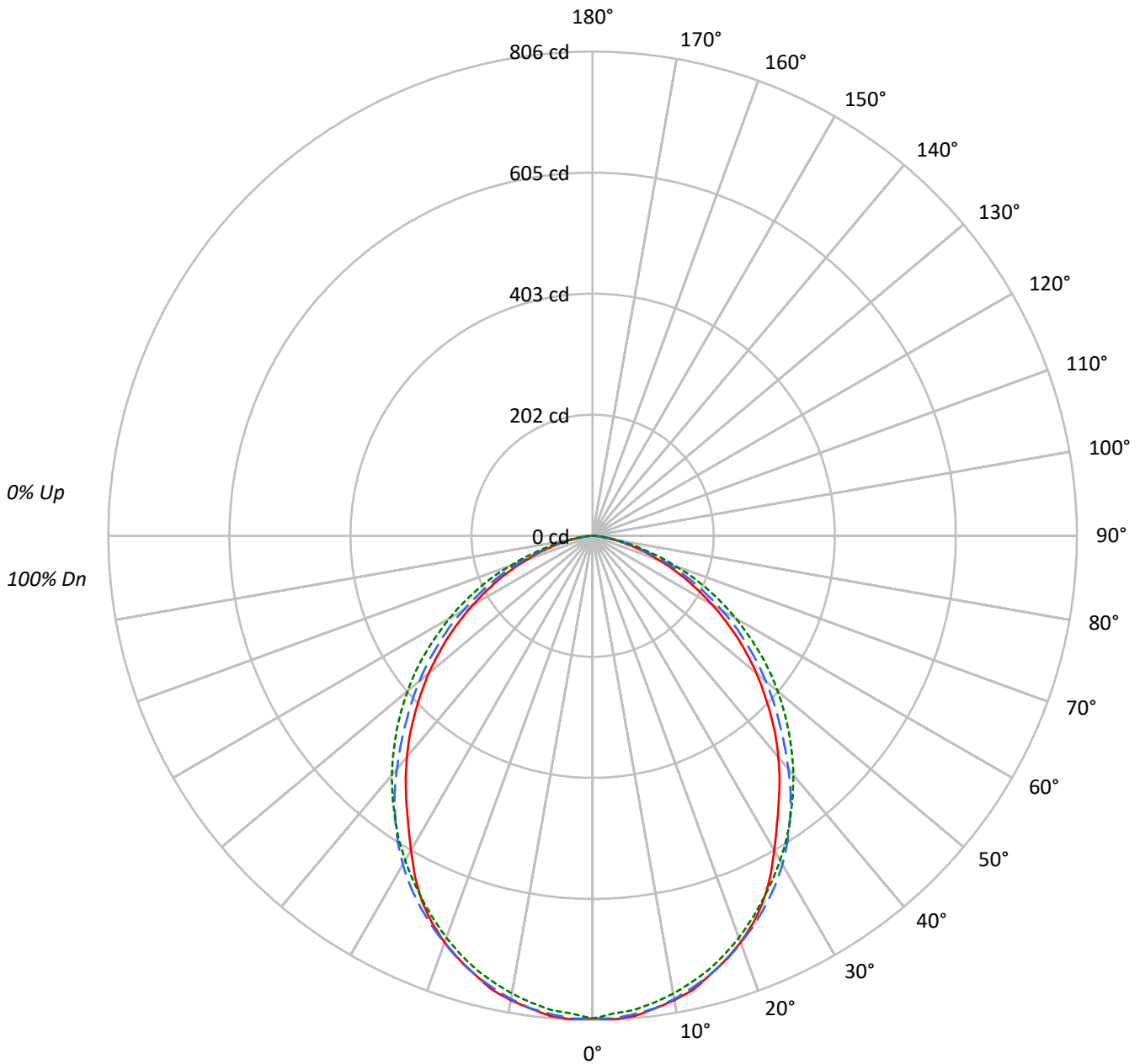
Lumens per Lamp: N/A
Luminaire Lumens: 1858.0 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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: P554964

CATALOG NUMBER: FUSL-12-2-LD4-2LO-35-UNV-82-86-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P554964

CATALOG NUMBER: FUSL-12-2-LD4-2LO-35-UNV-82-86-EDD-90

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°	4324	4324	4324
5°	4336	4318	4281
10°	4290	4279	4229
15°	4214	4214	4166
20°	4125	4130	4077
25°	3989	4039	3975
30°	3756	3925	3877
35°	3549	3762	3769
40°	3377	3559	3652
45°	3184	3344	3515
50°	2980	3151	3365
55°	2749	2931	3184
60°	2476	2675	2960
65°	2185	2379	2693
70°	1822	2025	2288
75°	1431	1618	1790
80°	1023	1137	1261
85°	667	667	630



TEST NUMBER: P554964

CATALOG NUMBER: FUSL-12-2-LD4-2LO-35-UNV-82-86-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.7	4.1
10°-20°	212.5	11.4
20°-30°	310.6	16.7
30°-40°	352.6	19.0
40°-50°	340.3	18.3
50°-60°	280.7	15.1
60°-70°	187.0	10.1
70°-80°	83.7	4.5
80°-90°	15.0	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°	598.8	32.2
0°-40°	951.3	51.2
0°-60°	1572.4	84.6
0°-90°	1858.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1858.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	804	804	804	804	804	
5°	803	802	799	795	792	76
15°	756	758	756	753	748	213
25°	672	677	680	675	669	308
35°	540	548	573	576	574	338
45°	418	425	439	459	462	323
55°	293	298	312	330	339	261
65°	172	176	187	200	212	170
75°	69	72	78	82	86	75
85°	11	11	11	10	10	15
90°	0	0	0	0	0	



TEST NUMBER: P554964

CATALOG NUMBER: FUSL-12-2-LD4-2LO-35-UNV-82-86-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	803.5	803.5	803.5	803.5	803.5
2.5°	805.7	806.0	804.2	799.2	796.1
5°	802.6	802.3	799.2	794.9	792.4
7.5°	793.7	794.3	793.4	787.2	783.8
10°	785.0	785.3	782.9	777.9	773.9
12.5°	773.9	773.6	770.2	767.7	761.2
15°	756.3	758.2	756.3	752.9	747.7
17.5°	739.3	739.3	740.6	734.7	730.7
20°	720.2	721.1	721.1	716.5	711.9
22.5°	698.0	700.7	701.7	696.7	691.2
25°	671.7	677.0	680.1	675.1	669.3
27.5°	639.9	648.0	657.2	653.5	647.0
30°	604.4	616.2	631.6	628.5	623.9
32.5°	570.8	582.5	603.8	602.6	600.1
35°	540.2	547.6	572.6	575.7	573.6
37.5°	511.2	518.0	541.5	548.6	546.7
40°	480.6	488.0	506.6	519.2	519.8
42.5°	450.4	457.5	472.6	490.8	490.8
45°	418.3	425.4	439.3	459.3	461.8
47.5°	386.8	394.2	407.8	427.9	431.9
50°	355.9	362.7	376.3	395.7	401.9
52.5°	323.8	331.2	344.5	362.4	371.4
55°	293.0	297.9	312.4	329.7	339.3
57.5°	260.8	265.5	281.8	296.7	306.5
60°	230.0	235.8	248.5	263.6	275.0
62.5°	200.3	206.5	217.3	230.6	243.6
65°	171.6	176.3	186.8	200.0	211.5
67.5°	143.9	147.9	158.4	167.6	179.7
70°	115.8	121.0	128.7	137.7	145.4
72.5°	93.2	95.4	101.9	108.4	116.4
75°	68.8	72.5	77.8	81.5	86.1
77.5°	49.4	51.6	54.6	57.7	62.0
80°	33.0	34.0	36.7	37.4	40.7
82.5°	20.1	20.7	21.3	21.6	22.8
85°	10.8	10.8	10.8	10.2	10.2
87.5°	6.2	6.2	5.2	4.3	3.1
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)