

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: P555736

Luminaire Tested: **FUSL-12-2-LD4-3LO-35-UNV-82-88-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: P555736
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-LD4-3LO-35-UNV-82-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

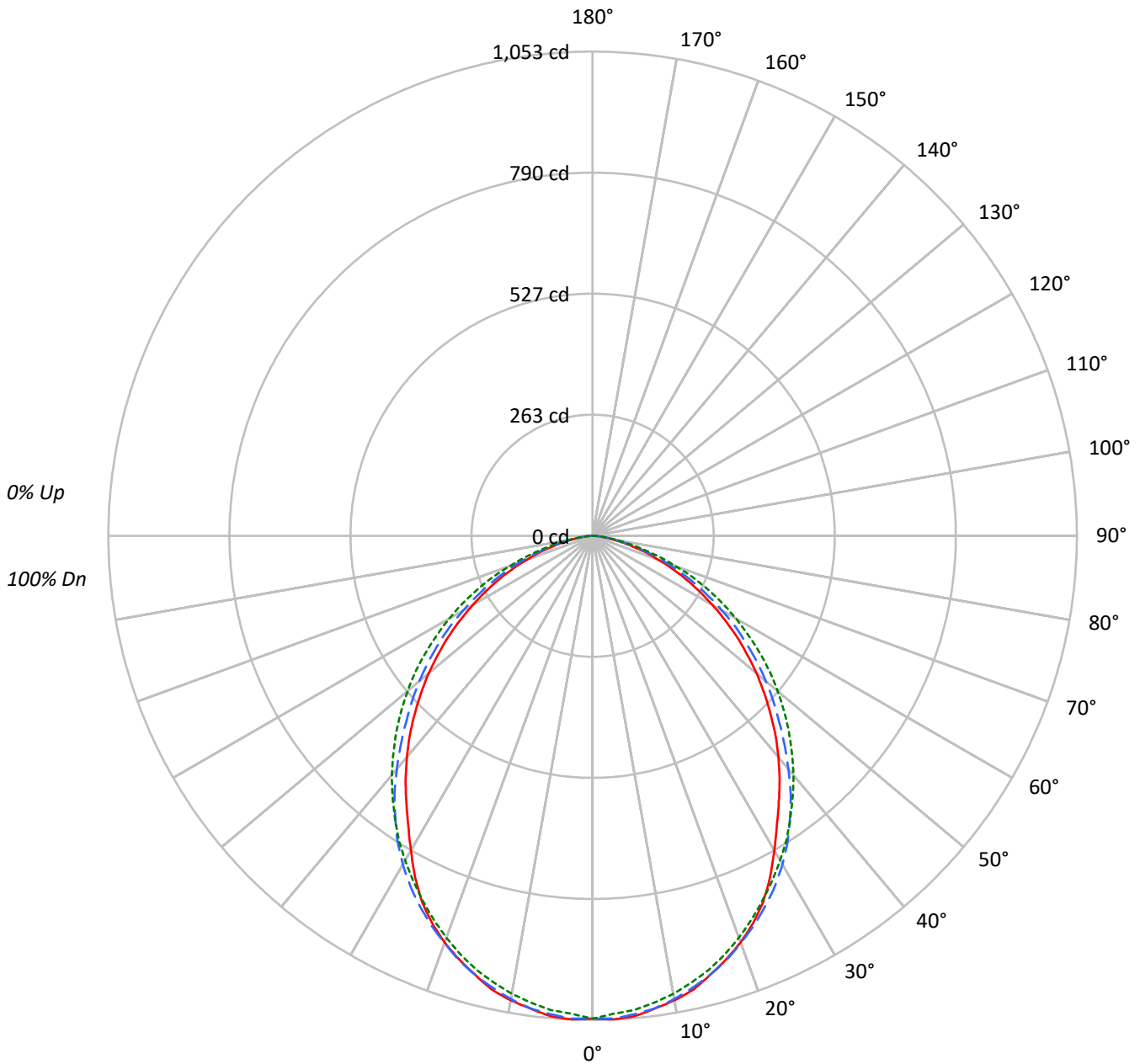
Lumens per Lamp: N/A
Luminaire Lumens: 2428.0 lumens
Efficiency: N/A
Efficacy: 69.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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: P555736

CATALOG NUMBER: FUSL-12-2-LD4-3LO-35-UNV-82-88-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P555736

CATALOG NUMBER: FUSL-12-2-LD4-3LO-35-UNV-82-88-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°	5651	5651	5651
5°	5666	5642	5594
10°	5606	5591	5527
15°	5507	5507	5444
20°	5390	5397	5328
25°	5213	5277	5194
30°	4909	5129	5067
35°	4638	4916	4924
40°	4413	4651	4773
45°	4160	4369	4593
50°	3894	4117	4397
55°	3592	3830	4160
60°	3235	3495	3869
65°	2856	3109	3519
70°	2381	2647	2990
75°	1871	2115	2339
80°	1339	1488	1649
85°	871	871	821



TEST NUMBER: P555736

CATALOG NUMBER: FUSL-12-2-LD4-3LO-35-UNV-82-88-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.9	4.1
10°-20°	277.7	11.4
20°-30°	405.9	16.7
30°-40°	460.7	19.0
40°-50°	444.7	18.3
50°-60°	366.9	15.1
60°-70°	244.3	10.1
70°-80°	109.3	4.5
80°-90°	19.6	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°	782.5	32.2
0°-40°	1243.2	51.2
0°-60°	2054.8	84.6
0°-90°	2428.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2428.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1050	1050	1050	1050	1050	
5°	1049	1048	1044	1039	1036	99
15°	988	991	988	984	977	279
25°	878	885	889	882	875	402
35°	706	716	748	752	750	442
45°	547	556	574	600	604	422
55°	383	389	408	431	443	342
65°	224	230	244	261	276	222
75°	90	95	102	106	112	98
85°	14	14	14	13	13	19
90°	0	0	0	0	0	



TEST NUMBER: P555736

CATALOG NUMBER: FUSL-12-2-LD4-3LO-35-UNV-82-88-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1050.0	1050.0	1050.0	1050.0	1050.0
2.5°	1052.9	1053.3	1050.9	1044.4	1040.4
5°	1048.8	1048.4	1044.4	1038.8	1035.5
7.5°	1037.1	1037.9	1036.7	1028.7	1024.2
10°	1025.8	1026.2	1023.0	1016.6	1011.3
12.5°	1011.3	1010.9	1006.5	1003.3	994.8
15°	988.3	990.7	988.3	983.9	977.0
17.5°	966.1	966.1	967.8	960.1	954.8
20°	941.1	942.3	942.3	936.3	930.2
22.5°	912.1	915.7	916.9	910.5	903.2
25°	877.8	884.7	888.7	882.2	874.6
27.5°	836.2	846.7	858.8	854.0	845.5
30°	789.9	805.2	825.4	821.3	815.3
32.5°	745.9	761.2	789.0	787.4	784.2
35°	705.9	715.6	748.3	752.3	749.5
37.5°	668.0	676.9	707.6	716.8	714.4
40°	628.1	637.8	662.0	678.5	679.3
42.5°	588.6	597.8	617.6	641.4	641.4
45°	546.6	555.9	574.0	600.3	603.5
47.5°	505.5	515.1	532.9	559.1	564.4
50°	465.1	474.0	491.7	517.2	525.2
52.5°	423.2	432.8	450.2	473.6	485.3
55°	382.8	389.3	408.2	430.8	443.3
57.5°	340.9	346.9	368.3	387.7	400.6
60°	300.5	308.2	324.7	344.5	359.4
62.5°	261.8	269.9	284.0	301.3	318.3
65°	224.3	230.3	244.1	261.4	276.3
67.5°	188.0	193.2	206.9	219.0	234.8
70°	151.3	158.1	168.2	179.9	190.0
72.5°	121.8	124.7	133.1	141.6	152.1
75°	90.0	94.8	101.7	106.5	112.5
77.5°	64.5	67.4	71.4	75.4	81.1
80°	43.2	44.4	48.0	48.8	53.2
82.5°	26.2	27.0	27.8	28.2	29.9
85°	14.1	14.1	14.1	13.3	13.3
87.5°	8.1	8.1	6.9	5.6	4.0
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)