

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: P554977

Luminaire Tested: **FUSL-12-2-LD4-2LO-35-UNV-93-84-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: P554977
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-93-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

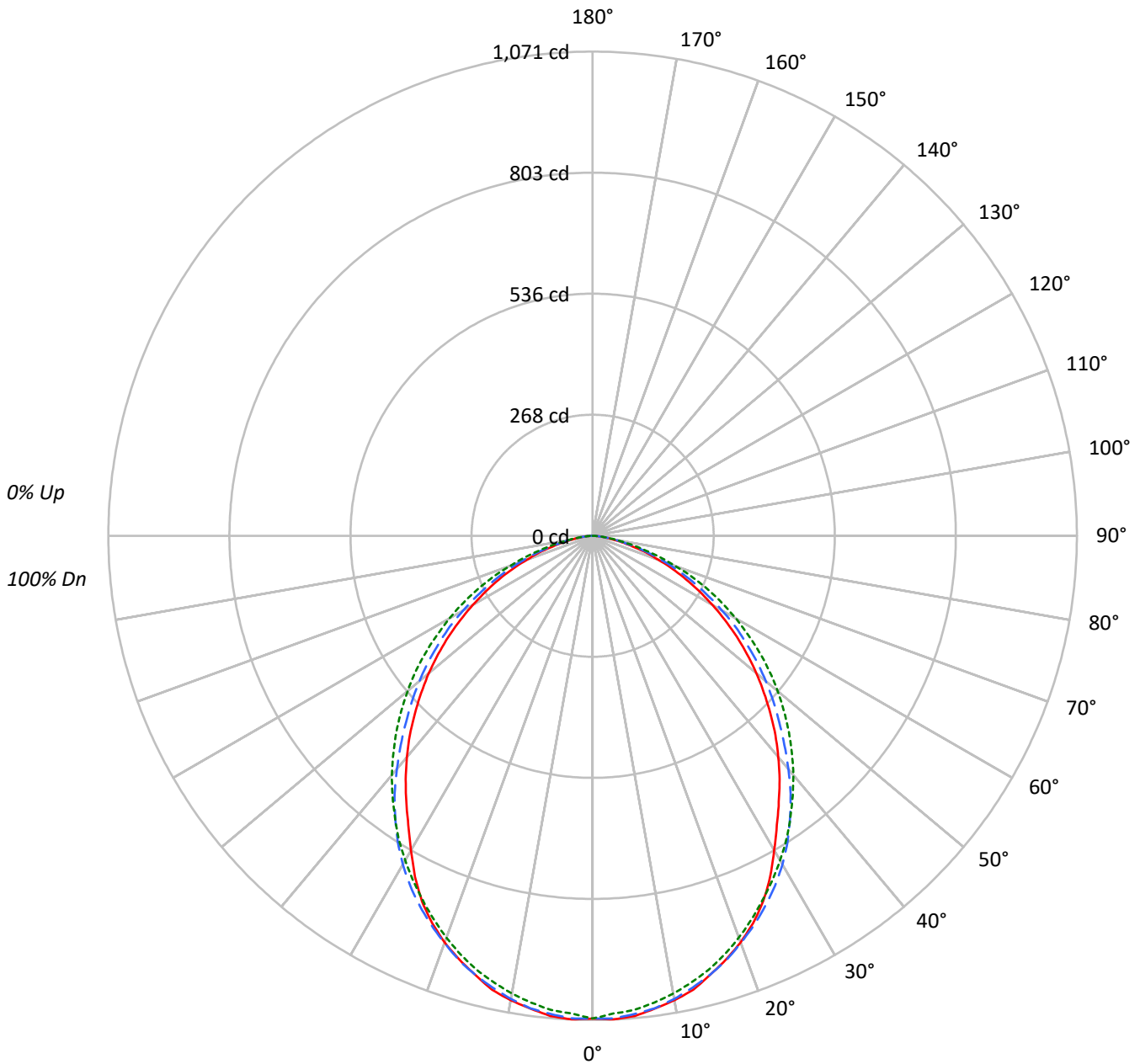
Lumens per Lamp: N/A
Luminaire Lumens: 2469.0 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (A_{in}): 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: P554977

CATALOG NUMBER: FUSL-12-2-LD4-2LO-35-UNV-93-84-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P554977

CATALOG NUMBER: FUSL-12-2-LD4-2LO-35-UNV-93-84-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°	5747	5747	5747
5°	5762	5737	5689
10°	5701	5685	5620
15°	5600	5600	5536
20°	5481	5489	5418
25°	5301	5366	5281
30°	4992	5216	5152
35°	4717	4999	5008
40°	4487	4730	4853
45°	4230	4443	4671
50°	3960	4186	4472
55°	3653	3895	4230
60°	3289	3554	3934
65°	2905	3161	3578
70°	2420	2692	3040
75°	1903	2150	2379
80°	1361	1512	1677
85°	889	889	834



TEST NUMBER: P554977

CATALOG NUMBER: FUSL-12-2-LD4-2LO-35-UNV-93-84-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.5	4.1
10°-20°	282.4	11.4
20°-30°	412.7	16.7
30°-40°	468.5	19.0
40°-50°	452.2	18.3
50°-60°	373.1	15.1
60°-70°	248.4	10.1
70°-80°	111.2	4.5
80°-90°	19.9	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°	795.7	32.2
0°-40°	1264.2	51.2
0°-60°	2089.5	84.6
0°-90°	2469.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2469.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1068	1068	1068	1068	1068	
5°	1066	1066	1062	1056	1053	101
15°	1005	1008	1005	1000	994	283
25°	893	900	904	897	889	409
35°	718	728	761	765	762	450
45°	556	565	584	610	614	429
55°	389	396	415	438	451	347
65°	228	234	248	266	281	226
75°	92	96	103	108	114	100
85°	14	14	14	14	14	19
90°	0	0	0	0	0	



TEST NUMBER: P554977

CATALOG NUMBER: FUSL-12-2-LD4-2LO-35-UNV-93-84-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1067.8	1067.8	1067.8	1067.8	1067.8
2.5°	1070.7	1071.1	1068.6	1062.0	1057.9
5°	1066.5	1066.1	1062.0	1056.3	1053.0
7.5°	1054.7	1055.5	1054.2	1046.0	1041.5
10°	1043.2	1043.6	1040.3	1033.7	1028.4
12.5°	1028.4	1028.0	1023.5	1020.2	1011.6
15°	1005.0	1007.5	1005.0	1000.5	993.5
17.5°	982.5	982.5	984.1	976.3	971.0
20°	957.0	958.3	958.3	952.1	945.9
22.5°	927.5	931.2	932.4	925.8	918.5
25°	892.6	899.6	903.7	897.1	889.3
27.5°	850.4	861.0	873.3	868.4	859.8
30°	803.2	818.8	839.3	835.2	829.0
32.5°	758.5	774.1	802.4	800.7	797.4
35°	717.9	727.7	760.9	765.0	762.2
37.5°	679.3	688.3	719.5	728.9	726.5
40°	638.7	648.5	673.2	690.0	690.8
42.5°	598.5	607.9	628.0	652.2	652.2
45°	555.8	565.3	583.7	610.4	613.7
47.5°	514.0	523.8	541.9	568.6	573.9
50°	473.0	482.0	500.0	525.9	534.1
52.5°	430.3	440.2	457.8	481.6	493.5
55°	389.3	395.9	415.1	438.1	450.8
57.5°	346.6	352.8	374.5	394.2	407.3
60°	305.6	313.4	330.2	350.3	365.5
62.5°	266.2	274.4	288.8	306.4	323.7
65°	228.1	234.2	248.2	265.8	281.0
67.5°	191.2	196.5	210.4	222.7	238.7
70°	153.8	160.8	171.1	183.0	193.2
72.5°	123.9	126.8	135.4	144.0	154.6
75°	91.5	96.4	103.4	108.3	114.4
77.5°	65.6	68.5	72.6	76.7	82.5
80°	43.9	45.1	48.8	49.6	54.1
82.5°	26.7	27.5	28.3	28.7	30.4
85°	14.4	14.4	14.4	13.5	13.5
87.5°	8.2	8.2	7.0	5.7	4.1
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)