

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: P555273

Luminaire Tested: **FUSL-12-2-LD4-2STD-40-UNV-81-88-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: P555273
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-LD4-2STD-40-UNV-81-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

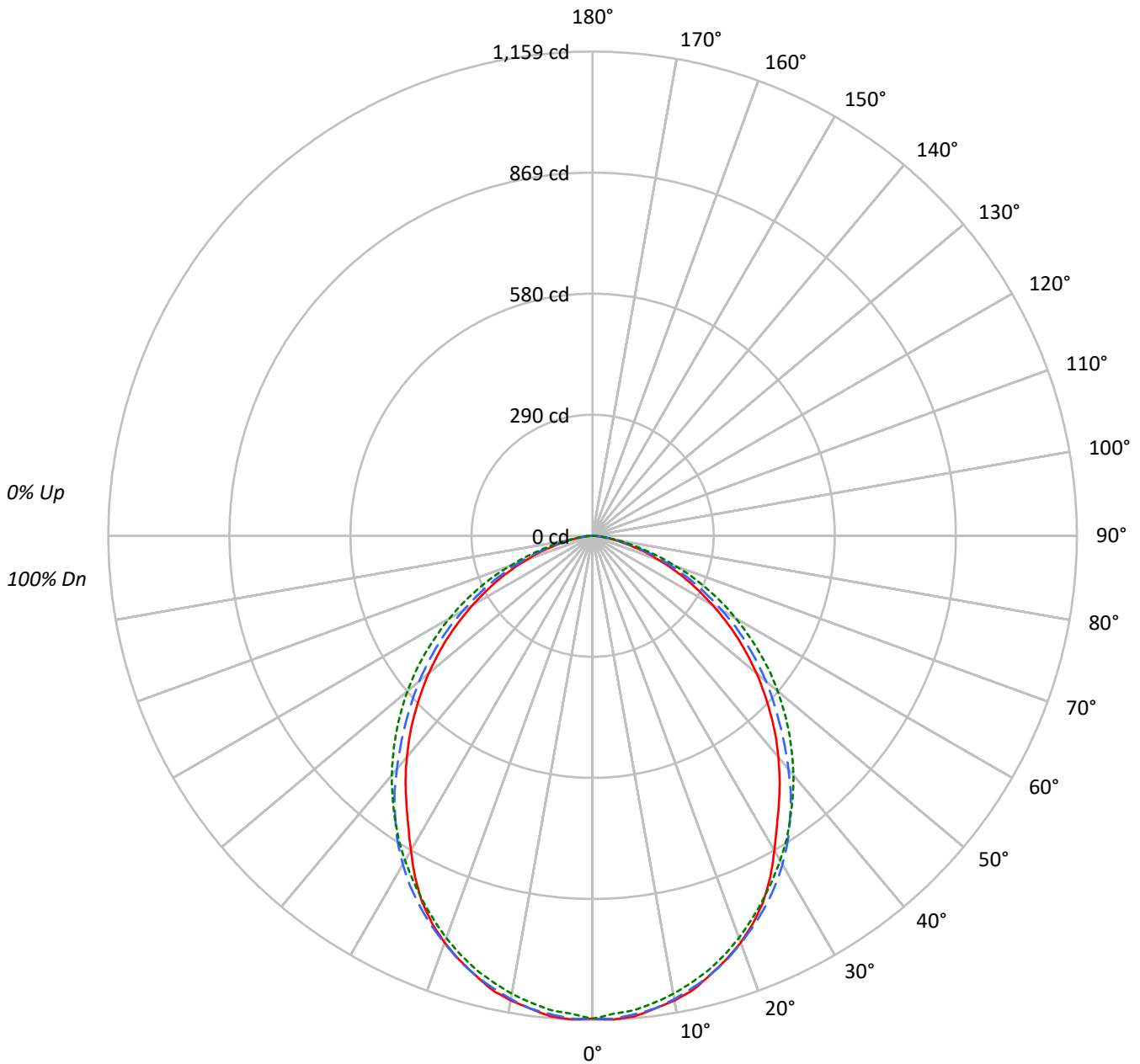
Lumens per Lamp: N/A
Luminaire Lumens: 2673.0 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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: P555273

CATALOG NUMBER: FUSL-12-2-LD4-2STD-40-UNV-81-88-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P555273

CATALOG NUMBER: FUSL-12-2-LD4-2STD-40-UNV-81-88-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°	6222	6222	6222
5°	6238	6212	6159
10°	6172	6155	6085
15°	6063	6063	5993
20°	5934	5942	5865
25°	5739	5810	5717
30°	5404	5647	5578
35°	5106	5412	5421
40°	4858	5120	5254
45°	4580	4810	5057
50°	4288	4533	4841
55°	3955	4217	4580
60°	3562	3848	4259
65°	3144	3422	3874
70°	2620	2914	3292
75°	2059	2327	2576
80°	1472	1636	1816
85°	957	957	908



TEST NUMBER: P555273

CATALOG NUMBER: FUSL-12-2-LD4-2STD-40-UNV-81-88-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.8	4.1
10°-20°	305.8	11.4
20°-30°	446.8	16.7
30°-40°	507.2	19.0
40°-50°	489.6	18.3
50°-60°	403.9	15.1
60°-70°	269.0	10.1
70°-80°	120.4	4.5
80°-90°	21.5	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°	861.4	32.2
0°-40°	1368.6	51.2
0°-60°	2262.1	84.6
0°-90°	2673.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2673.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1156	1156	1156	1156	1156	
5°	1155	1154	1150	1144	1140	109
15°	1088	1091	1088	1083	1076	307
25°	966	974	978	971	963	443
35°	777	788	824	828	825	487
45°	602	612	632	661	664	464
55°	422	429	449	474	488	376
65°	247	254	269	288	304	245
75°	99	104	112	117	124	108
85°	16	16	16	15	15	21
90°	0	0	0	0	0	



TEST NUMBER: P555273

CATALOG NUMBER: FUSL-12-2-LD4-2STD-40-UNV-81-88-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1156.0	1156.0	1156.0	1156.0	1156.0
2.5°	1159.1	1159.6	1156.9	1149.8	1145.3
5°	1154.7	1154.2	1149.8	1143.6	1140.0
7.5°	1141.8	1142.7	1141.3	1132.5	1127.6
10°	1129.4	1129.8	1126.2	1119.1	1113.4
12.5°	1113.4	1112.9	1108.0	1104.5	1095.2
15°	1088.1	1090.7	1088.1	1083.2	1075.6
17.5°	1063.6	1063.6	1065.4	1057.0	1051.2
20°	1036.1	1037.4	1037.4	1030.8	1024.1
22.5°	1004.1	1008.1	1009.4	1002.3	994.3
25°	966.4	973.9	978.4	971.3	962.8
27.5°	920.6	932.2	945.5	940.2	930.8
30°	869.6	886.4	908.6	904.2	897.5
32.5°	821.1	838.0	868.7	866.9	863.3
35°	777.2	787.8	823.8	828.3	825.1
37.5°	735.4	745.2	779.0	789.2	786.5
40°	691.5	702.1	728.8	747.0	747.9
42.5°	647.9	658.2	679.9	706.1	706.1
45°	601.8	612.0	632.0	660.8	664.4
47.5°	556.5	567.1	586.7	615.5	621.3
50°	512.1	521.8	541.4	569.3	578.2
52.5°	465.9	476.5	495.6	521.4	534.3
55°	421.5	428.6	449.4	474.3	488.1
57.5°	375.3	381.9	405.5	426.8	441.0
60°	330.9	339.3	357.5	379.3	395.7
62.5°	288.2	297.1	312.6	331.7	350.4
65°	246.9	253.6	268.7	287.8	304.2
67.5°	207.0	212.7	227.8	241.1	258.5
70°	166.5	174.1	185.2	198.1	209.2
72.5°	134.1	137.2	146.6	155.9	167.4
75°	99.0	104.4	111.9	117.2	123.9
77.5°	71.1	74.2	78.6	83.0	89.3
80°	47.5	48.9	52.8	53.7	58.6
82.5°	28.9	29.8	30.6	31.1	32.9
85°	15.5	15.5	15.5	14.7	14.7
87.5°	8.9	8.9	7.5	6.2	4.4
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)