

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: P556054

Luminaire Tested: **FUSL-12-2-LD4-3STD-40-UNV-82-87-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: P556054
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-LD4-3STD-40-UNV-82-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

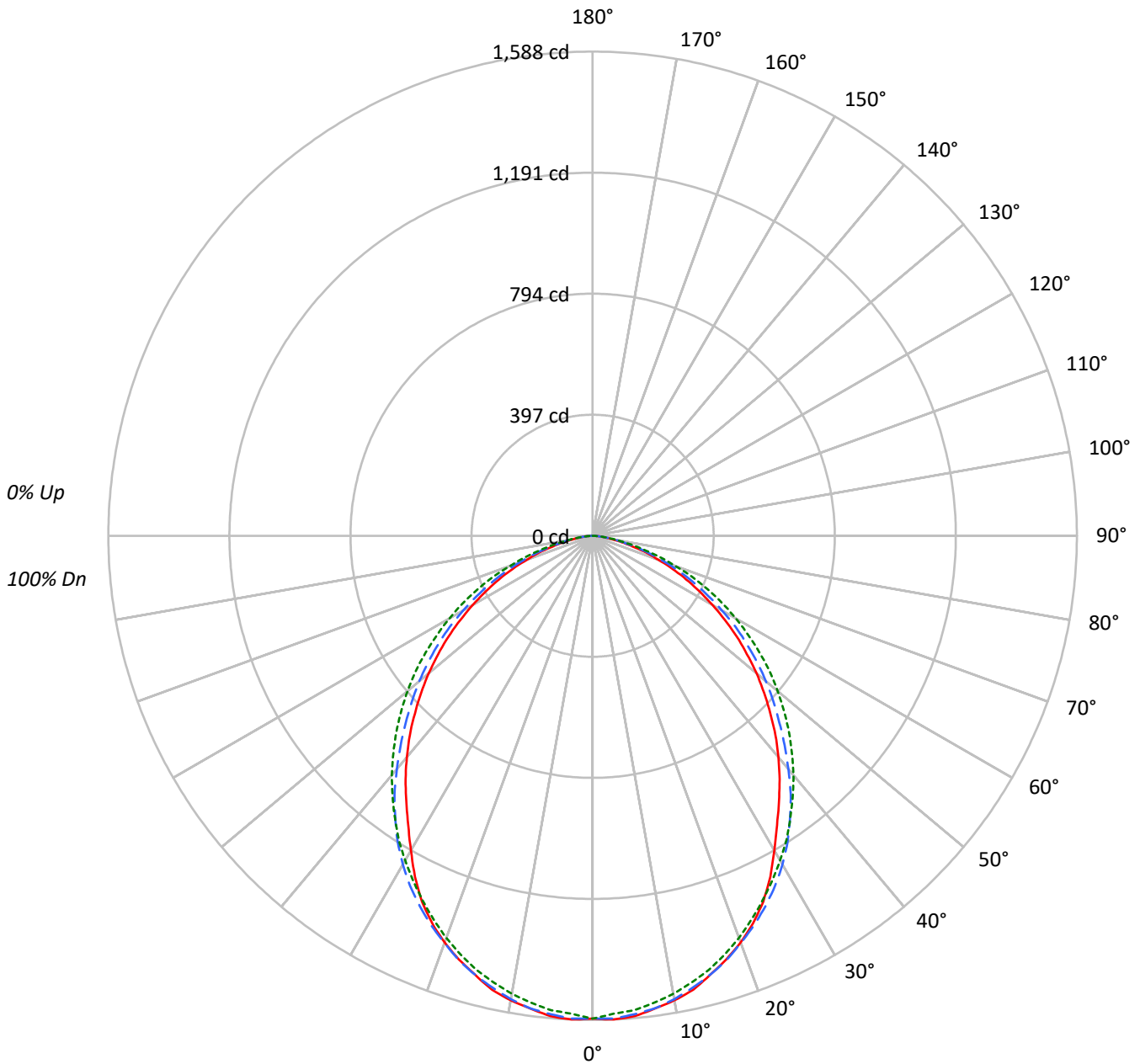
Lumens per Lamp: N/A
Luminaire Lumens: 3662.0 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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: P556054

CATALOG NUMBER: FUSL-12-2-LD4-3STD-40-UNV-82-87-EDD-90

Luminous Intensity Polar Plot





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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°	8523	8523	8523
5°	8546	8510	8438
10°	8455	8432	8336
15°	8305	8305	8211
20°	8129	8140	8035
25°	7862	7960	7833
30°	7403	7736	7641
35°	6995	7415	7427
40°	6655	7014	7198
45°	6275	6590	6928
50°	5874	6210	6633
55°	5418	5777	6275
60°	4879	5272	5835
65°	4308	4688	5308
70°	3591	3992	4510
75°	2822	3188	3529
80°	2018	2244	2489
85°	1315	1315	1241



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.1	4.1
10°-20°	418.9	11.4
20°-30°	612.1	16.7
30°-40°	694.9	19.0
40°-50°	670.8	18.3
50°-60°	553.3	15.1
60°-70°	368.5	10.1
70°-80°	164.9	4.5
80°-90°	29.5	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°	1180.2	32.2
0°-40°	1875.0	51.2
0°-60°	3099.1	84.6
0°-90°	3662.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3662.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1584	1584	1584	1584	1584	
5°	1582	1581	1575	1567	1562	150
15°	1491	1494	1491	1484	1474	420
25°	1324	1334	1340	1331	1319	606
35°	1065	1079	1129	1135	1130	667
45°	824	838	866	905	910	636
55°	577	587	616	650	669	515
65°	338	347	368	394	417	335
75°	136	143	153	161	170	148
85°	21	21	21	20	20	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1583.7	1583.7	1583.7	1583.7	1583.7
2.5°	1588.0	1588.6	1584.9	1575.2	1569.1
5°	1581.9	1581.3	1575.2	1566.7	1561.8
7.5°	1564.3	1565.5	1563.6	1551.5	1544.8
10°	1547.2	1547.8	1543.0	1533.2	1525.3
12.5°	1525.3	1524.7	1518.0	1513.1	1500.4
15°	1490.6	1494.3	1490.6	1483.9	1473.6
17.5°	1457.2	1457.2	1459.6	1448.0	1440.1
20°	1419.4	1421.3	1421.3	1412.1	1403.0
22.5°	1375.6	1381.1	1382.9	1373.2	1362.3
25°	1323.9	1334.3	1340.4	1330.6	1319.1
27.5°	1261.3	1277.1	1295.3	1288.0	1275.3
30°	1191.3	1214.4	1244.8	1238.7	1229.6
32.5°	1125.0	1148.1	1190.1	1187.6	1182.8
35°	1064.7	1079.3	1128.6	1134.7	1130.4
37.5°	1007.5	1020.9	1067.2	1081.2	1077.5
40°	947.3	961.9	998.4	1023.4	1024.6
42.5°	887.7	901.7	931.5	967.4	967.4
45°	824.4	838.4	865.8	905.3	910.2
47.5°	762.4	777.0	803.7	843.3	851.2
50°	701.5	714.9	741.7	780.0	792.2
52.5°	638.2	652.8	679.0	714.3	731.9
55°	577.4	587.1	615.7	649.8	668.7
57.5°	514.1	523.2	555.5	584.7	604.2
60°	453.3	464.8	489.8	519.6	542.1
62.5°	394.9	407.0	428.3	454.5	480.0
65°	338.3	347.4	368.1	394.3	416.8
67.5°	283.5	291.4	312.1	330.4	354.1
70°	228.2	238.5	253.7	271.4	286.6
72.5°	183.7	188.0	200.8	213.6	229.4
75°	135.7	143.0	153.3	160.6	169.7
77.5°	97.3	101.6	107.7	113.8	122.3
80°	65.1	66.9	72.4	73.6	80.3
82.5°	39.5	40.8	42.0	42.6	45.0
85°	21.3	21.3	21.3	20.1	20.1
87.5°	12.2	12.2	10.3	8.5	6.1
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)