

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: P556120

Luminaire Tested: **FUSL-12-2-LD4-3STD-50-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: P556120
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-50-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 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

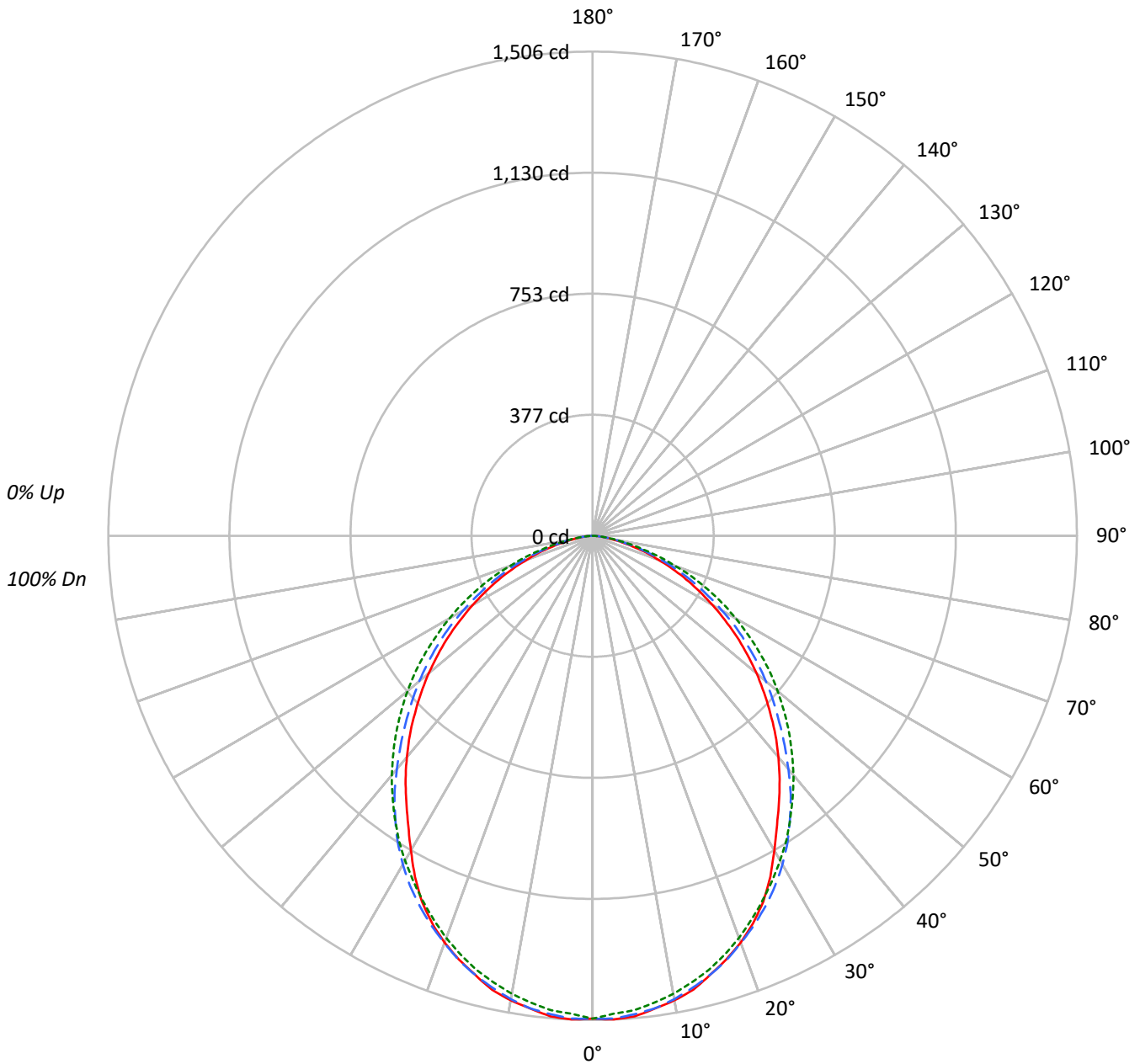
Lumens per Lamp: N/A
Luminaire Lumens: 3473.0 lumens
Efficiency: N/A
Efficacy: 69.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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

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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°	8084	8084	8084
5°	8105	8071	8002
10°	8019	7997	7906
15°	7877	7877	7787
20°	7710	7720	7621
25°	7456	7549	7429
30°	7021	7337	7247
35°	6635	7033	7044
40°	6312	6653	6827
45°	5951	6250	6570
50°	5570	5889	6291
55°	5138	5479	5950
60°	4627	5000	5534
65°	4085	4446	5034
70°	3405	3786	4277
75°	2676	3023	3348
80°	1912	2129	2362
85°	1247	1247	1173



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.4	4.1
10°-20°	397.3	11.4
20°-30°	580.6	16.7
30°-40°	659.0	19.0
40°-50°	636.2	18.3
50°-60°	524.8	15.1
60°-70°	349.5	10.1
70°-80°	156.4	4.5
80°-90°	28.0	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°	1119.3	32.2
0°-40°	1778.2	51.2
0°-60°	2939.2	84.6
0°-90°	3473.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3473.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1502	1502	1502	1502	1502	
5°	1500	1500	1494	1486	1481	142
15°	1414	1417	1414	1407	1398	399
25°	1256	1265	1271	1262	1251	575
35°	1010	1024	1070	1076	1072	633
45°	782	795	821	859	863	603
55°	548	557	584	616	634	489
65°	321	330	349	374	395	318
75°	129	136	145	152	161	141
85°	20	20	20	19	19	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1502.0	1502.0	1502.0	1502.0	1502.0
2.5°	1506.0	1506.6	1503.1	1493.9	1488.1
5°	1500.3	1499.7	1493.9	1485.8	1481.2
7.5°	1483.5	1484.7	1482.9	1471.4	1465.1
10°	1467.4	1467.9	1463.3	1454.1	1446.6
12.5°	1446.6	1446.0	1439.7	1435.0	1422.9
15°	1413.7	1417.2	1413.7	1407.4	1397.5
17.5°	1382.0	1382.0	1384.3	1373.3	1365.8
20°	1346.2	1347.9	1347.9	1339.3	1330.6
22.5°	1304.6	1309.8	1311.6	1302.3	1291.9
25°	1255.6	1265.4	1271.2	1261.9	1251.0
27.5°	1196.2	1211.2	1228.5	1221.6	1209.4
30°	1129.8	1151.7	1180.6	1174.8	1166.2
32.5°	1066.9	1088.8	1128.7	1126.3	1121.7
35°	1009.8	1023.6	1070.4	1076.1	1072.1
37.5°	955.5	968.2	1012.1	1025.4	1021.9
40°	898.4	912.3	946.9	970.5	971.7
42.5°	841.9	855.1	883.4	917.5	917.5
45°	781.9	795.1	821.1	858.6	863.2
47.5°	723.0	736.9	762.2	799.7	807.3
50°	665.3	678.0	703.4	739.7	751.3
52.5°	605.3	619.1	644.0	677.4	694.2
55°	547.6	556.8	583.9	616.3	634.1
57.5°	487.6	496.2	526.8	554.5	573.0
60°	429.9	440.8	464.5	492.8	514.1
62.5°	374.5	386.0	406.2	431.0	455.3
65°	320.8	329.5	349.1	373.9	395.3
67.5°	268.9	276.4	296.0	313.3	335.8
70°	216.4	226.2	240.6	257.4	271.8
72.5°	174.3	178.3	190.4	202.5	217.5
75°	128.7	135.6	145.4	152.3	161.0
77.5°	92.3	96.4	102.1	107.9	116.0
80°	61.7	63.5	68.7	69.8	76.2
82.5°	37.5	38.7	39.8	40.4	42.7
85°	20.2	20.2	20.2	19.0	19.0
87.5°	11.5	11.5	9.8	8.1	5.8
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)