

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: P554753

Luminaire Tested: **FUSL-12-2-LD4-2HI-40-UNV-81-84-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: P554753
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-LD4-2HI-40-UNV-81-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

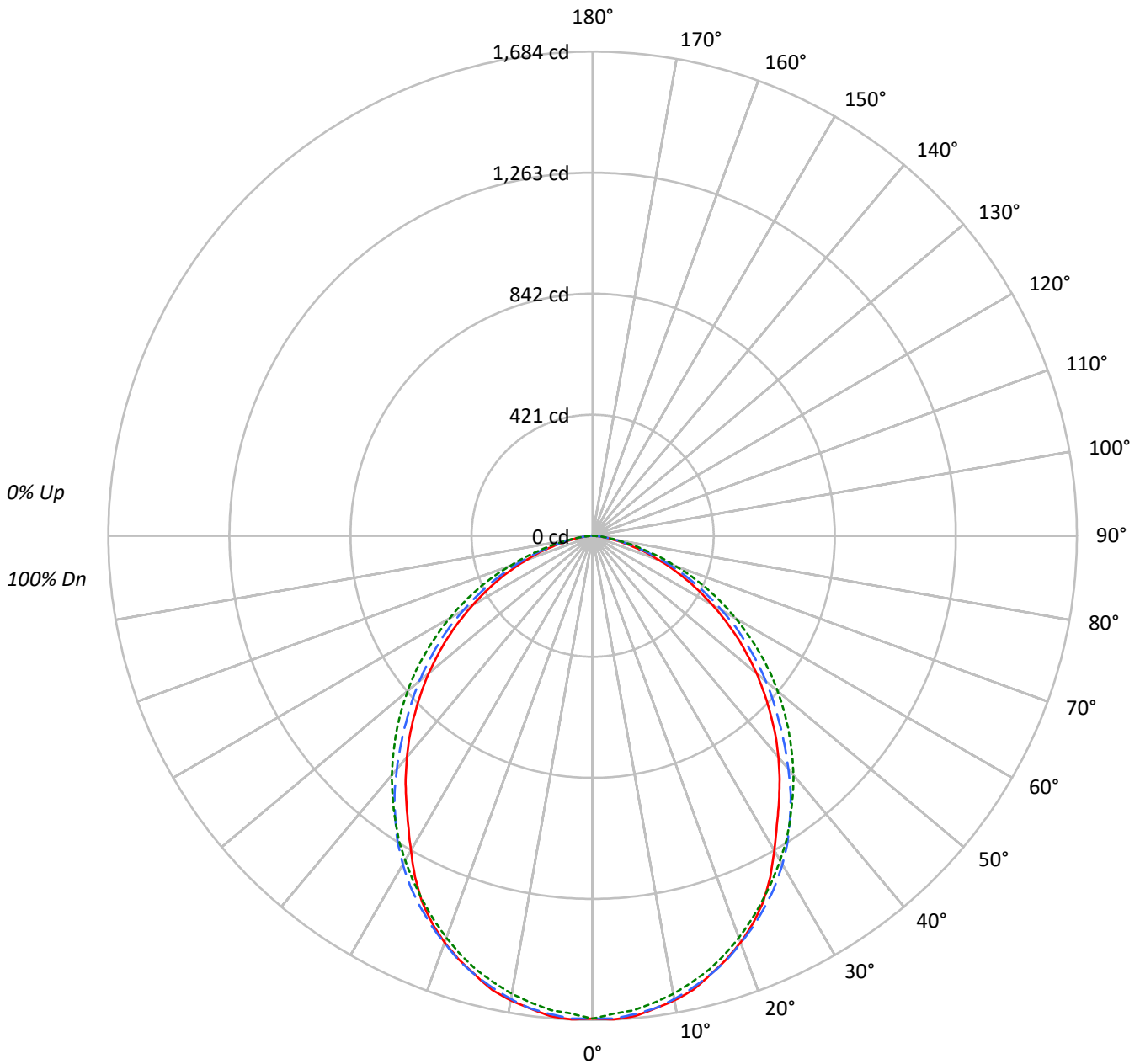
Lumens per Lamp: N/A
Luminaire Lumens: 3883.0 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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

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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°	9038	9038	9038
5°	9062	9024	8947
10°	8966	8941	8839
15°	8807	8807	8706
20°	8620	8631	8521
25°	8336	8440	8306
30°	7850	8203	8103
35°	7418	7863	7876
40°	7057	7438	7633
45°	6654	6987	7346
50°	6228	6584	7033
55°	5744	6126	6653
60°	5173	5590	6187
65°	4568	4970	5628
70°	3806	4233	4782
75°	2992	3381	3743
80°	2139	2380	2641
85°	1396	1396	1315



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.1	4.1
10°-20°	444.2	11.4
20°-30°	649.1	16.7
30°-40°	736.8	19.0
40°-50°	711.3	18.3
50°-60°	586.7	15.1
60°-70°	390.7	10.1
70°-80°	174.8	4.5
80°-90°	31.3	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°	1251.4	32.2
0°-40°	1988.2	51.2
0°-60°	3286.2	84.6
0°-90°	3883.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3883.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1679	1679	1679	1679	1679	
5°	1677	1677	1670	1661	1656	159
15°	1581	1584	1581	1574	1562	446
25°	1404	1415	1421	1411	1399	643
35°	1129	1144	1197	1203	1199	707
45°	874	889	918	960	965	674
55°	612	623	653	689	709	546
65°	359	368	390	418	442	356
75°	144	152	163	170	180	157
85°	23	23	23	21	21	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1679.3	1679.3	1679.3	1679.3	1679.3
2.5°	1683.8	1684.5	1680.6	1670.3	1663.8
5°	1677.4	1676.7	1670.3	1661.2	1656.1
7.5°	1658.7	1659.9	1658.0	1645.1	1638.0
10°	1640.6	1641.2	1636.1	1625.8	1617.4
12.5°	1617.4	1616.7	1609.6	1604.5	1590.9
15°	1580.6	1584.5	1580.6	1573.5	1562.5
17.5°	1545.1	1545.1	1547.7	1535.4	1527.0
20°	1505.1	1507.0	1507.0	1497.4	1487.7
22.5°	1458.7	1464.5	1466.4	1456.1	1444.5
25°	1403.8	1414.8	1421.2	1410.9	1398.7
27.5°	1337.4	1354.1	1373.5	1365.8	1352.2
30°	1263.2	1287.7	1320.0	1313.5	1303.8
32.5°	1192.9	1217.4	1261.9	1259.3	1254.2
35°	1129.0	1144.5	1196.7	1203.2	1198.7
37.5°	1068.4	1082.5	1131.6	1146.4	1142.5
40°	1004.5	1020.0	1058.7	1085.1	1086.4
42.5°	941.3	956.1	987.7	1025.8	1025.8
45°	874.2	889.0	918.0	960.0	965.1
47.5°	808.4	823.8	852.2	894.2	902.5
50°	743.8	758.0	786.4	827.1	840.0
52.5°	676.8	692.2	720.0	757.4	776.1
55°	612.2	622.6	652.9	689.0	709.0
57.5°	545.1	554.8	589.0	620.0	640.6
60°	480.6	492.9	519.3	550.9	574.8
62.5°	418.7	431.6	454.2	481.9	509.0
65°	358.7	368.4	390.3	418.1	441.9
67.5°	300.6	309.0	331.0	350.3	375.5
70°	241.9	252.9	269.0	287.7	303.9
72.5°	194.8	199.3	212.9	226.4	243.2
75°	143.9	151.6	162.6	170.3	180.0
77.5°	103.2	107.7	114.2	120.6	129.7
80°	69.0	71.0	76.8	78.1	85.2
82.5°	41.9	43.2	44.5	45.2	47.7
85°	22.6	22.6	22.6	21.3	21.3
87.5°	12.9	12.9	11.0	9.0	6.5
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)