

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: P554693

Luminaire Tested: **FUSL-12-2-LD4-2HI-35-UNV-81-86-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: P554693
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-35-UNV-81-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

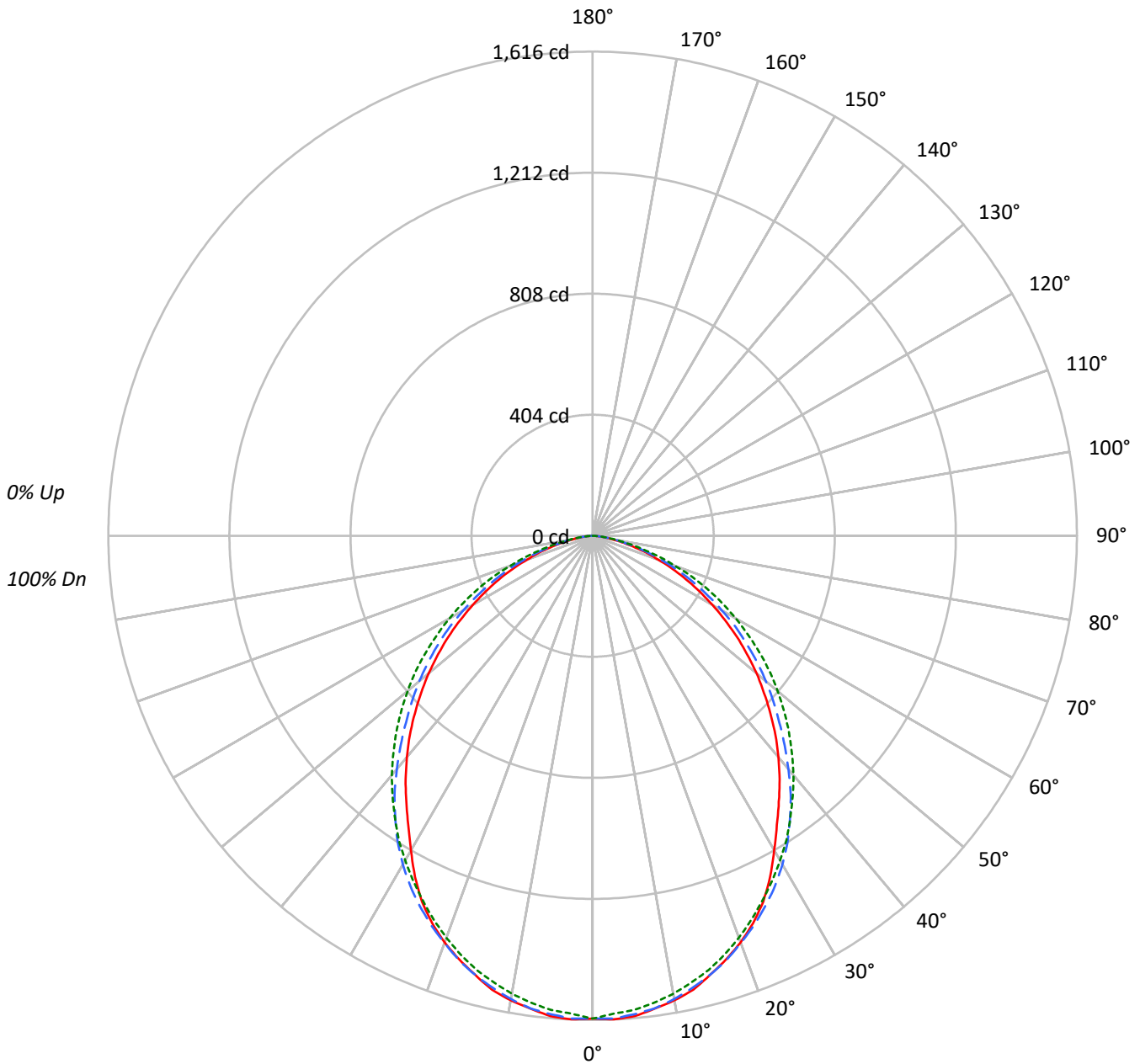
Lumens per Lamp: N/A
Luminaire Lumens: 3726.0 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	8672	8672	8672
5°	8695	8659	8585
10°	8604	8579	8482
15°	8451	8451	8354
20°	8272	8282	8176
25°	8000	8099	7970
30°	7533	7871	7775
35°	7117	7545	7557
40°	6772	7137	7324
45°	6384	6705	7049
50°	5977	6318	6749
55°	5513	5879	6383
60°	4964	5364	5937
65°	4383	4769	5401
70°	3652	4061	4589
75°	2870	3244	3591
80°	2052	2284	2532
85°	1340	1340	1260



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.7	4.1
10°-20°	426.2	11.4
20°-30°	622.8	16.7
30°-40°	707.0	19.0
40°-50°	682.5	18.3
50°-60°	563.0	15.1
60°-70°	374.9	10.1
70°-80°	167.8	4.5
80°-90°	30.0	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°	1200.8	32.2
0°-40°	1907.8	51.2
0°-60°	3153.3	84.6
0°-90°	3726.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3726.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1611	1611	1611	1611	1611	
5°	1610	1609	1603	1594	1589	152
15°	1517	1520	1517	1510	1499	428
25°	1347	1358	1364	1354	1342	617
35°	1083	1098	1148	1154	1150	679
45°	839	853	881	921	926	647
55°	588	597	626	661	680	524
65°	344	354	374	401	424	341
75°	138	146	156	163	173	151
85°	22	22	22	20	20	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1611.4	1611.4	1611.4	1611.4	1611.4
2.5°	1615.7	1616.4	1612.6	1602.7	1596.5
5°	1609.5	1608.9	1602.7	1594.1	1589.1
7.5°	1591.6	1592.8	1591.0	1578.6	1571.8
10°	1574.3	1574.9	1569.9	1560.0	1552.0
12.5°	1552.0	1551.4	1544.5	1539.6	1526.6
15°	1516.7	1520.4	1516.7	1509.9	1499.3
17.5°	1482.6	1482.6	1485.1	1473.3	1465.3
20°	1444.3	1446.1	1446.1	1436.8	1427.5
22.5°	1399.7	1405.3	1407.1	1397.2	1386.1
25°	1347.1	1357.6	1363.8	1353.9	1342.1
27.5°	1283.3	1299.4	1318.0	1310.5	1297.5
30°	1212.1	1235.6	1266.6	1260.4	1251.1
32.5°	1144.6	1168.2	1210.9	1208.4	1203.4
35°	1083.3	1098.2	1148.3	1154.5	1150.2
37.5°	1025.2	1038.8	1085.8	1100.1	1096.3
40°	963.9	978.7	1015.9	1041.2	1042.5
42.5°	903.2	917.4	947.8	984.3	984.3
45°	838.8	853.1	880.9	921.2	926.1
47.5°	775.7	790.5	817.8	858.0	866.1
50°	713.8	727.4	754.6	793.6	806.0
52.5°	649.4	664.2	690.9	726.8	744.7
55°	587.5	597.4	626.5	661.2	680.3
57.5°	523.1	532.4	565.2	594.9	614.7
60°	461.2	473.0	498.3	528.7	551.6
62.5°	401.8	414.1	435.8	462.4	488.4
65°	344.2	353.5	374.5	401.1	424.1
67.5°	288.5	296.5	317.6	336.1	360.3
70°	232.1	242.7	258.1	276.1	291.6
72.5°	187.0	191.3	204.3	217.3	233.4
75°	138.0	145.5	156.0	163.4	172.7
77.5°	99.0	103.4	109.6	115.8	124.4
80°	66.2	68.1	73.7	74.9	81.7
82.5°	40.2	41.5	42.7	43.3	45.8
85°	21.7	21.7	21.7	20.4	20.4
87.5°	12.4	12.4	10.5	8.7	6.2
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)