

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: P555751

Luminaire Tested: **FUSL-12-2-LD4-3LO-35-UNV-93-87-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: P555751
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-LD4-3LO-35-UNV-93-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

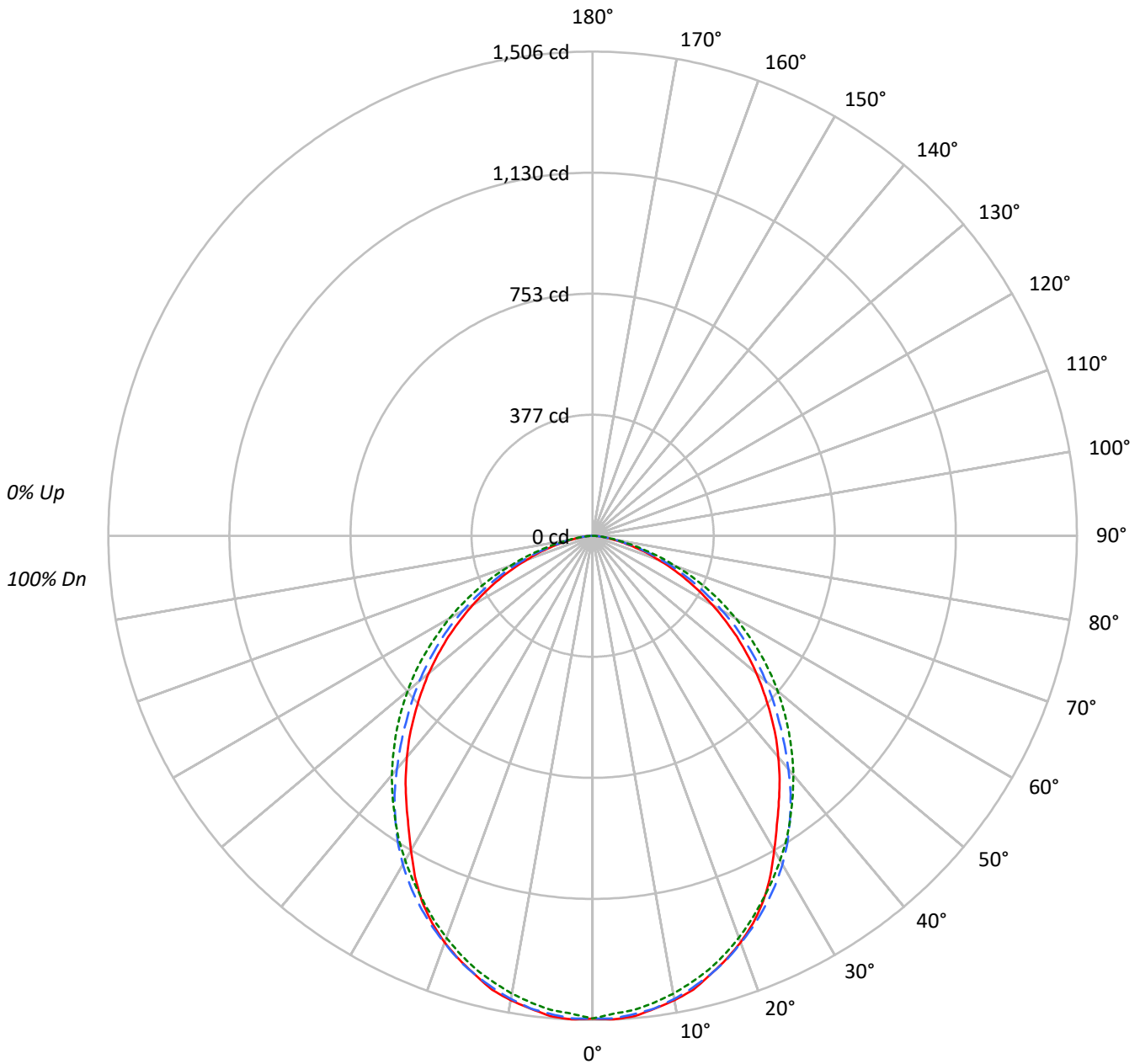
Lumens per Lamp: N/A
Luminaire Lumens: 3472.0 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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°	8082	8082	8082
5°	8103	8069	8000
10°	8017	7995	7903
15°	7875	7875	7784
20°	7708	7718	7619
25°	7454	7546	7426
30°	7019	7334	7245
35°	6633	7031	7042
40°	6310	6650	6825
45°	5949	6248	6568
50°	5569	5888	6289
55°	5136	5478	5949
60°	4626	4999	5533
65°	4084	4444	5032
70°	3404	3784	4275
75°	2674	3023	3346
80°	1912	2126	2359
85°	1247	1247	1173



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.4	4.1
10°-20°	397.2	11.4
20°-30°	580.4	16.7
30°-40°	658.8	19.0
40°-50°	636.0	18.3
50°-60°	524.6	15.1
60°-70°	349.4	10.1
70°-80°	156.3	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°	1118.9	32.2
0°-40°	1777.7	51.2
0°-60°	2938.3	84.6
0°-90°	3472.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3472.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1502	1502	1502	1502	1502	
5°	1500	1499	1494	1485	1481	142
15°	1413	1417	1413	1407	1397	398
25°	1255	1265	1271	1262	1251	575
35°	1010	1023	1070	1076	1072	633
45°	782	795	821	858	863	603
55°	547	557	584	616	634	489
65°	321	329	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°	1501.6	1501.6	1501.6	1501.6	1501.6
2.5°	1505.6	1506.2	1502.7	1493.5	1487.7
5°	1499.8	1499.2	1493.5	1485.4	1480.8
7.5°	1483.1	1484.2	1482.5	1471.0	1464.6
10°	1466.9	1467.5	1462.9	1453.7	1446.2
12.5°	1446.2	1445.6	1439.3	1434.6	1422.5
15°	1413.3	1416.8	1413.3	1406.9	1397.1
17.5°	1381.6	1381.6	1383.9	1372.9	1365.4
20°	1345.8	1347.5	1347.5	1338.9	1330.2
22.5°	1304.3	1309.5	1311.2	1302.0	1291.6
25°	1255.2	1265.0	1270.8	1261.6	1250.6
27.5°	1195.8	1210.8	1228.1	1221.2	1209.1
30°	1129.5	1151.4	1180.2	1174.5	1165.8
32.5°	1066.6	1088.5	1128.3	1126.0	1121.4
35°	1009.5	1023.3	1070.1	1075.8	1071.8
37.5°	955.3	968.0	1011.8	1025.1	1021.6
40°	898.2	912.0	946.6	970.3	971.4
42.5°	841.6	854.9	883.2	917.2	917.2
45°	781.6	794.9	820.9	858.4	863.0
47.5°	722.8	736.6	762.0	799.5	807.0
50°	665.1	677.8	703.2	739.5	751.1
52.5°	605.1	619.0	643.8	677.2	694.0
55°	547.4	556.7	583.8	616.1	634.0
57.5°	487.4	496.1	526.7	554.4	572.8
60°	429.8	440.7	464.4	492.6	514.0
62.5°	374.4	385.9	406.1	430.9	455.1
65°	320.7	329.4	349.0	373.8	395.1
67.5°	268.8	276.3	295.9	313.2	335.7
70°	216.3	226.1	240.5	257.3	271.7
72.5°	174.2	178.2	190.4	202.5	217.5
75°	128.6	135.6	145.4	152.3	160.9
77.5°	92.3	96.3	102.1	107.9	115.9
80°	61.7	63.5	68.6	69.8	76.1
82.5°	37.5	38.6	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)