

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: P554726

Luminaire Tested: **FUSL-12-2-LD4-2HI-35-UNV-93-87-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: P554726
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-93-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

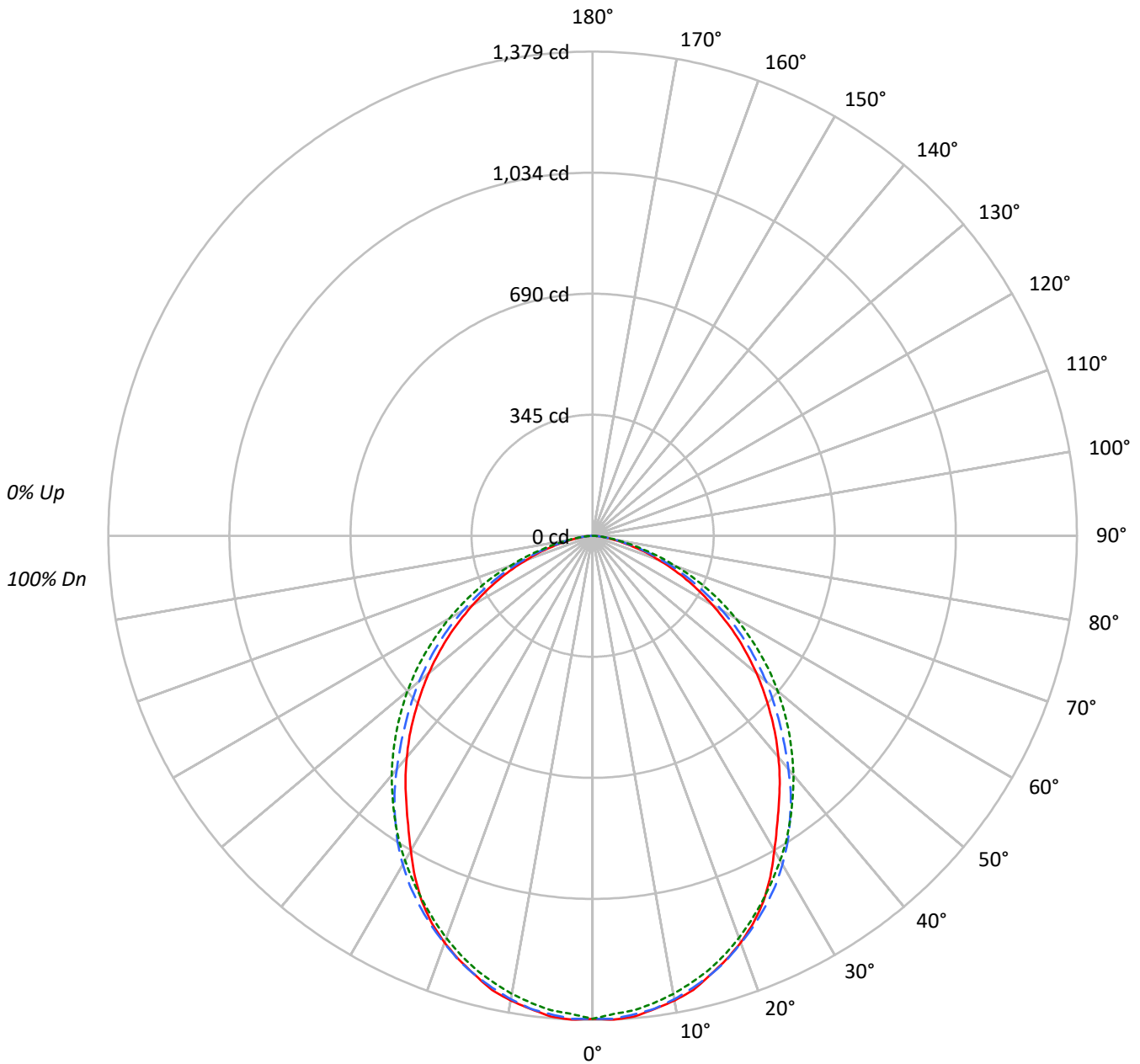
Lumens per Lamp: N/A
Luminaire Lumens: 3181.0 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
Input Voltage (V): NR
Input Current (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°	7404	7404	7404
5°	7424	7392	7330
10°	7345	7325	7241
15°	7214	7214	7132
20°	7062	7071	6980
25°	6829	6914	6804
30°	6431	6720	6638
35°	6077	6441	6452
40°	5781	6093	6253
45°	5450	5724	6017
50°	5102	5394	5761
55°	4707	5018	5450
60°	4238	4579	5069
65°	3741	4071	4610
70°	3119	3468	3917
75°	2452	2770	3067
80°	1754	1949	2163
85°	1142	1142	1074



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.5	4.1
10°-20°	363.9	11.4
20°-30°	531.7	16.7
30°-40°	603.6	19.0
40°-50°	582.7	18.3
50°-60°	480.7	15.1
60°-70°	320.1	10.1
70°-80°	143.2	4.5
80°-90°	25.6	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°	1025.1	32.2
0°-40°	1628.7	51.2
0°-60°	2692.0	84.6
0°-90°	3181.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3181.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1376	1376	1376	1376	1376	
5°	1374	1374	1368	1361	1357	130
15°	1295	1298	1295	1289	1280	365
25°	1150	1159	1164	1156	1146	527
35°	925	938	980	986	982	579
45°	716	728	752	786	791	553
55°	502	510	535	564	581	448
65°	294	302	320	342	362	291
75°	118	124	133	140	148	129
85°	18	18	18	17	17	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1375.7	1375.7	1375.7	1375.7	1375.7
2.5°	1379.4	1379.9	1376.8	1368.3	1363.0
5°	1374.1	1373.6	1368.3	1360.9	1356.7
7.5°	1358.8	1359.8	1358.3	1347.7	1341.9
10°	1344.0	1344.5	1340.3	1331.8	1325.0
12.5°	1325.0	1324.4	1318.6	1314.4	1303.3
15°	1294.8	1298.0	1294.8	1289.0	1280.0
17.5°	1265.8	1265.8	1267.9	1257.8	1251.0
20°	1233.0	1234.6	1234.6	1226.7	1218.7
22.5°	1195.0	1199.7	1201.3	1192.8	1183.3
25°	1150.0	1159.0	1164.3	1155.8	1145.8
27.5°	1095.6	1109.3	1125.2	1118.8	1107.7
30°	1034.8	1054.9	1081.3	1076.0	1068.1
32.5°	977.2	997.3	1033.8	1031.6	1027.4
35°	924.9	937.6	980.4	985.7	982.0
37.5°	875.2	886.8	927.0	939.2	936.0
40°	822.9	835.6	867.3	888.9	890.0
42.5°	771.1	783.2	809.1	840.3	840.3
45°	716.1	728.3	752.1	786.4	790.6
47.5°	662.2	674.9	698.2	732.5	739.4
50°	609.4	621.0	644.2	677.5	688.1
52.5°	554.4	567.1	589.8	620.5	635.8
55°	501.6	510.0	534.8	564.4	580.8
57.5°	446.6	454.5	482.5	507.9	524.8
60°	393.7	403.8	425.4	451.3	470.9
62.5°	343.0	353.6	372.1	394.8	417.0
65°	293.8	301.8	319.7	342.5	362.0
67.5°	246.3	253.2	271.1	287.0	307.6
70°	198.2	207.2	220.4	235.7	248.9
72.5°	159.6	163.3	174.4	185.5	199.2
75°	117.9	124.2	133.2	139.5	147.5
77.5°	84.6	88.3	93.5	98.8	106.2
80°	56.6	58.1	62.9	63.9	69.8
82.5°	34.4	35.4	36.5	37.0	39.1
85°	18.5	18.5	18.5	17.4	17.4
87.5°	10.6	10.6	9.0	7.4	5.3
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)