

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: P554634

Luminaire Tested: **FUSL-12-2-LD4-2HI-30-UNV-81-94-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: P554634
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-30-UNV-81-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

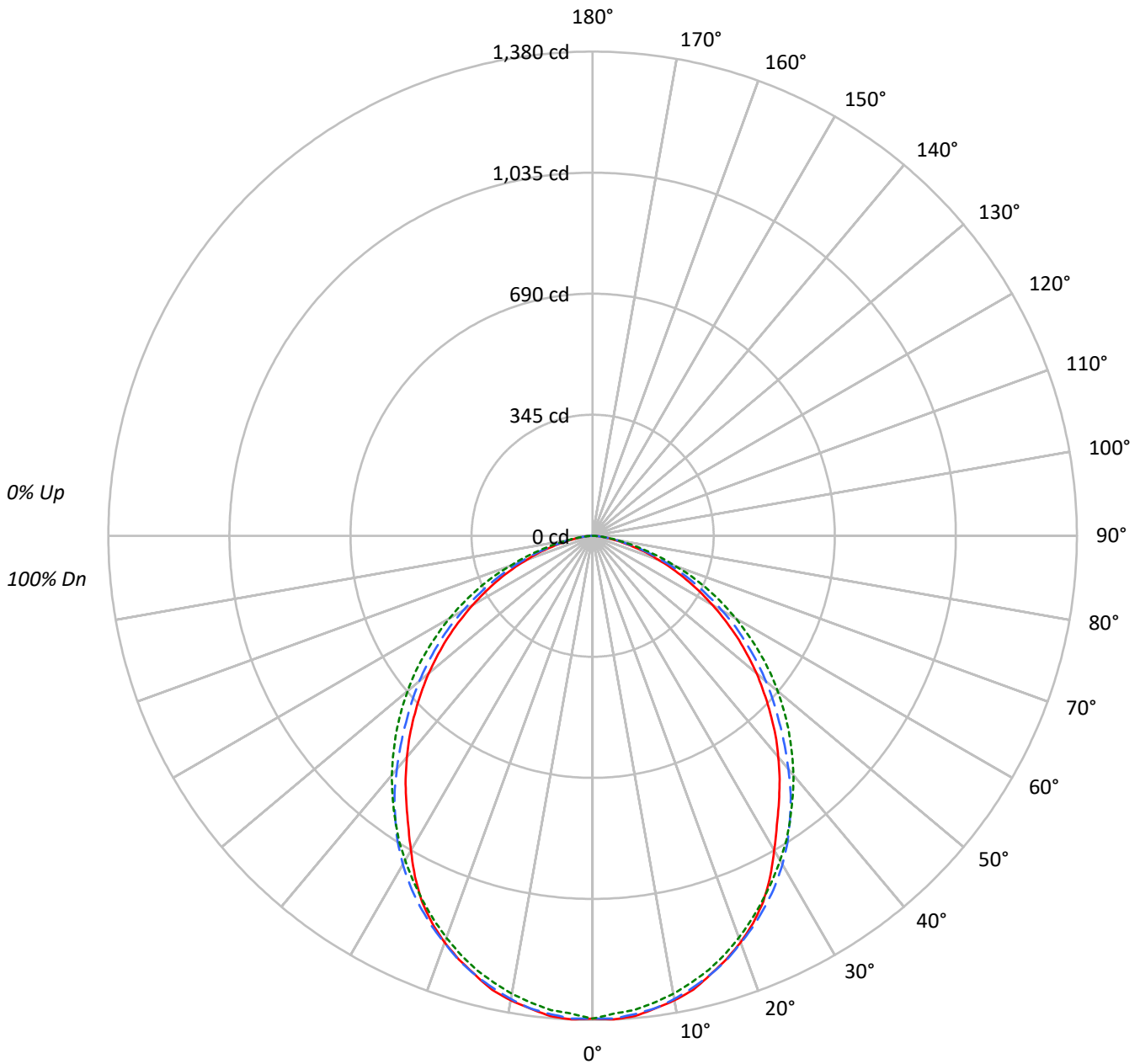
Lumens per Lamp: N/A
Luminaire Lumens: 3182.0 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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					20					
RC	80					70					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54					54			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47					47			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34					34			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7406	7406	7406
5°	7426	7394	7332
10°	7347	7327	7243
15°	7217	7217	7134
20°	7064	7073	6982
25°	6831	6916	6807
30°	6433	6722	6640
35°	6079	6443	6454
40°	5783	6095	6255
45°	5453	5726	6020
50°	5104	5396	5763
55°	4708	5020	5452
60°	4240	4581	5070
65°	3743	4073	4611
70°	3120	3470	3918
75°	2452	2770	3067
80°	1754	1949	2163
85°	1142	1142	1074



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.6	4.1
10°-20°	364.0	11.4
20°-30°	531.9	16.7
30°-40°	603.8	19.0
40°-50°	582.9	18.3
50°-60°	480.8	15.1
60°-70°	320.2	10.1
70°-80°	143.3	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°	1025.5	32.2
0°-40°	1629.2	51.2
0°-60°	2692.9	84.6
0°-90°	3182.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3182.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1376	1376	1376	1376	1376	
5°	1374	1374	1369	1361	1357	130
15°	1295	1298	1295	1289	1280	365
25°	1150	1159	1165	1156	1146	527
35°	925	938	981	986	982	580
45°	716	728	752	787	791	553
55°	502	510	535	565	581	448
65°	294	302	320	343	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°	1376.1	1376.1	1376.1	1376.1	1376.1
2.5°	1379.8	1380.4	1377.2	1368.7	1363.4
5°	1374.5	1374.0	1368.7	1361.3	1357.1
7.5°	1359.2	1360.3	1358.7	1348.1	1342.3
10°	1344.4	1344.9	1340.7	1332.3	1325.4
12.5°	1325.4	1324.9	1319.0	1314.8	1303.7
15°	1295.2	1298.4	1295.2	1289.4	1280.4
17.5°	1266.2	1266.2	1268.3	1258.2	1251.4
20°	1233.4	1235.0	1235.0	1227.0	1219.1
22.5°	1195.3	1200.1	1201.7	1193.2	1183.7
25°	1150.4	1159.4	1164.7	1156.2	1146.2
27.5°	1095.9	1109.7	1125.5	1119.2	1108.1
30°	1035.1	1055.2	1081.7	1076.4	1068.4
32.5°	977.5	997.6	1034.1	1032.0	1027.7
35°	925.2	937.9	980.7	986.0	982.3
37.5°	875.5	887.1	927.3	939.4	936.3
40°	823.1	835.8	867.6	889.2	890.3
42.5°	771.3	783.5	809.4	840.6	840.6
45°	716.4	728.5	752.3	786.7	790.9
47.5°	662.4	675.1	698.4	732.7	739.6
50°	609.6	621.2	644.5	677.8	688.3
52.5°	554.6	567.3	590.0	620.7	636.0
55°	501.7	510.2	535.0	564.6	581.0
57.5°	446.7	454.7	482.7	508.1	525.0
60°	393.9	403.9	425.6	451.5	471.0
62.5°	343.1	353.7	372.2	394.9	417.1
65°	293.9	301.9	319.8	342.6	362.1
67.5°	246.4	253.2	271.2	287.1	307.7
70°	198.3	207.2	220.5	235.8	249.0
72.5°	159.7	163.4	174.5	185.6	199.3
75°	117.9	124.2	133.2	139.6	147.5
77.5°	84.6	88.3	93.6	98.9	106.3
80°	56.6	58.2	62.9	64.0	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)