

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: P554694

Luminaire Tested: **FUSL-12-2-LD4-2HI-35-UNV-81-87-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: P554694
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-81-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC 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

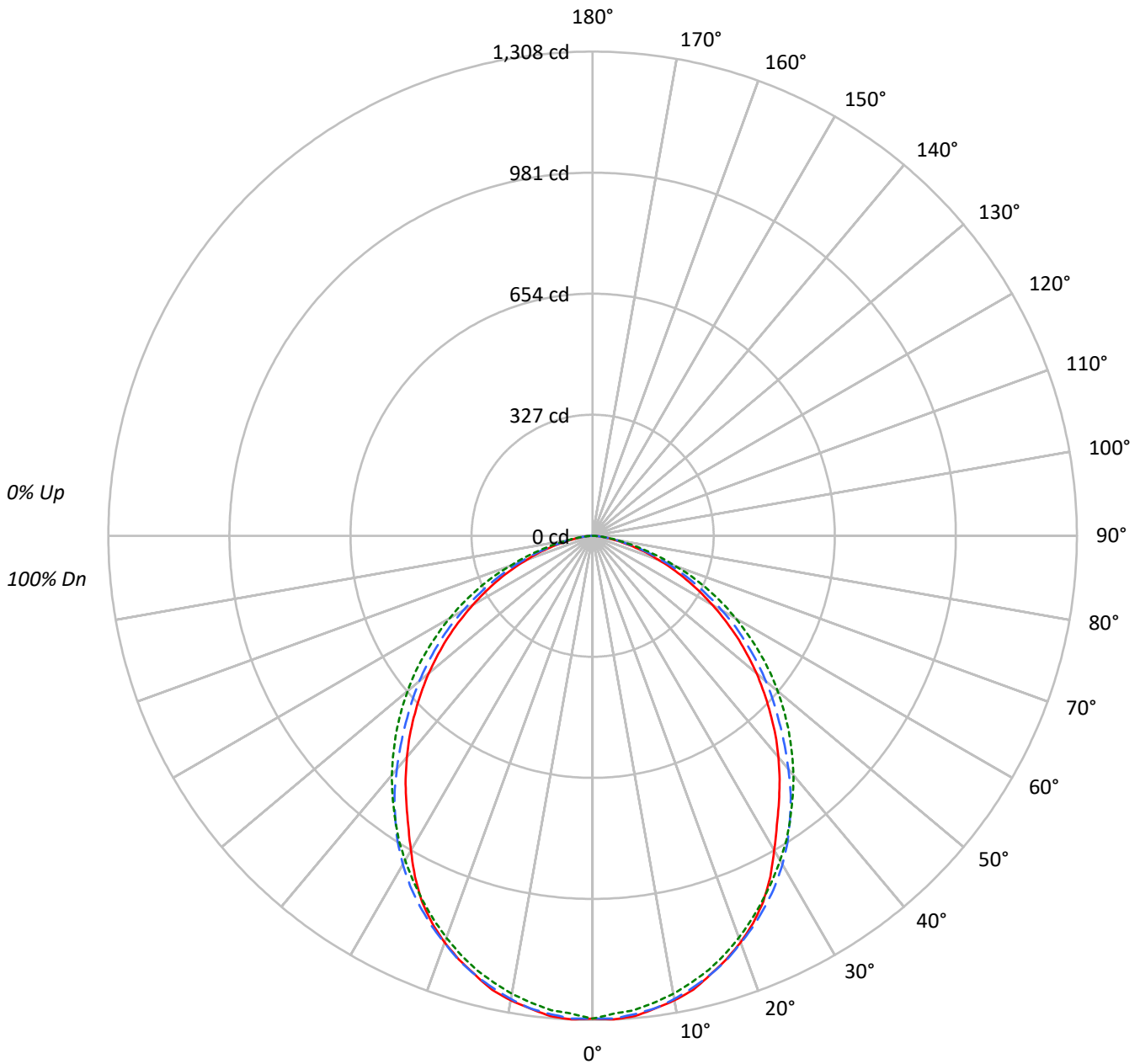
Lumens per Lamp: N/A
Luminaire Lumens: 3016.0 lumens
Efficiency: N/A
Efficacy: 69.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P554694

CATALOG NUMBER: FUSL-12-2-LD4-2HI-35-UNV-81-87-EDD-90

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°	7020	7020	7020
5°	7038	7009	6949
10°	6964	6945	6865
15°	6841	6841	6762
20°	6695	6704	6618
25°	6475	6555	6451
30°	6097	6371	6293
35°	5761	6107	6117
40°	5481	5777	5928
45°	5168	5428	5705
50°	4838	5114	5462
55°	4462	4758	5167
60°	4018	4342	4806
65°	3548	3861	4371
70°	2957	3289	3714
75°	2323	2626	2907
80°	1661	1847	2049
85°	1081	1081	1019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.8	4.1
10°-20°	345.0	11.4
20°-30°	504.2	16.7
30°-40°	572.3	19.0
40°-50°	552.4	18.3
50°-60°	455.7	15.1
60°-70°	303.5	10.1
70°-80°	135.8	4.5
80°-90°	24.3	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°	972.0	32.2
0°-40°	1544.2	51.2
0°-60°	2552.4	84.6
0°-90°	3016.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3016.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1304	1304	1304	1304	1304	
5°	1303	1302	1297	1290	1286	123
15°	1228	1231	1228	1222	1214	346
25°	1090	1099	1104	1096	1086	499
35°	877	889	930	934	931	549
45°	679	690	713	746	750	524
55°	476	484	507	535	551	424
65°	279	286	303	325	343	276
75°	112	118	126	132	140	122
85°	18	18	18	16	16	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1304.3	1304.3	1304.3	1304.3	1304.3
2.5°	1307.8	1308.4	1305.3	1297.3	1292.3
5°	1302.8	1302.3	1297.3	1290.3	1286.3
7.5°	1288.3	1289.3	1287.8	1277.8	1272.3
10°	1274.3	1274.8	1270.8	1262.8	1256.2
12.5°	1256.2	1255.7	1250.2	1246.2	1235.7
15°	1227.7	1230.7	1227.7	1222.2	1213.6
17.5°	1200.1	1200.1	1202.1	1192.6	1186.1
20°	1169.0	1170.6	1170.6	1163.0	1155.5
22.5°	1133.0	1137.5	1139.0	1131.0	1121.9
25°	1090.4	1098.9	1103.9	1095.9	1086.4
27.5°	1038.8	1051.8	1066.8	1060.8	1050.3
30°	981.1	1000.2	1025.2	1020.2	1012.7
32.5°	926.5	945.6	980.1	978.1	974.1
35°	876.9	888.9	929.5	934.5	931.0
37.5°	829.8	840.8	878.9	890.4	887.4
40°	780.2	792.2	822.3	842.8	843.8
42.5°	731.1	742.6	767.2	796.7	796.7
45°	679.0	690.5	713.1	745.6	749.6
47.5°	627.9	639.9	661.9	694.5	701.0
50°	577.8	588.8	610.8	642.4	652.4
52.5°	525.6	537.7	559.2	588.3	602.8
55°	475.5	483.6	507.1	535.2	550.7
57.5°	423.4	430.9	457.5	481.5	497.6
60°	373.3	382.8	403.4	427.9	446.5
62.5°	325.2	335.2	352.8	374.3	395.4
65°	278.6	286.1	303.2	324.7	343.2
67.5°	233.5	240.0	257.1	272.1	291.6
70°	187.9	196.4	209.0	223.5	236.0
72.5°	151.3	154.8	165.4	175.9	188.9
75°	111.7	117.8	126.3	132.3	139.8
77.5°	80.2	83.7	88.7	93.7	100.7
80°	53.6	55.1	59.6	60.6	66.1
82.5°	32.6	33.6	34.6	35.1	37.1
85°	17.5	17.5	17.5	16.5	16.5
87.5°	10.0	10.0	8.5	7.0	5.0
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)