

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: P555728

Luminaire Tested: **FUSL-12-2-LD4-3LO-35-UNV-82-84-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: P555728
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-82-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

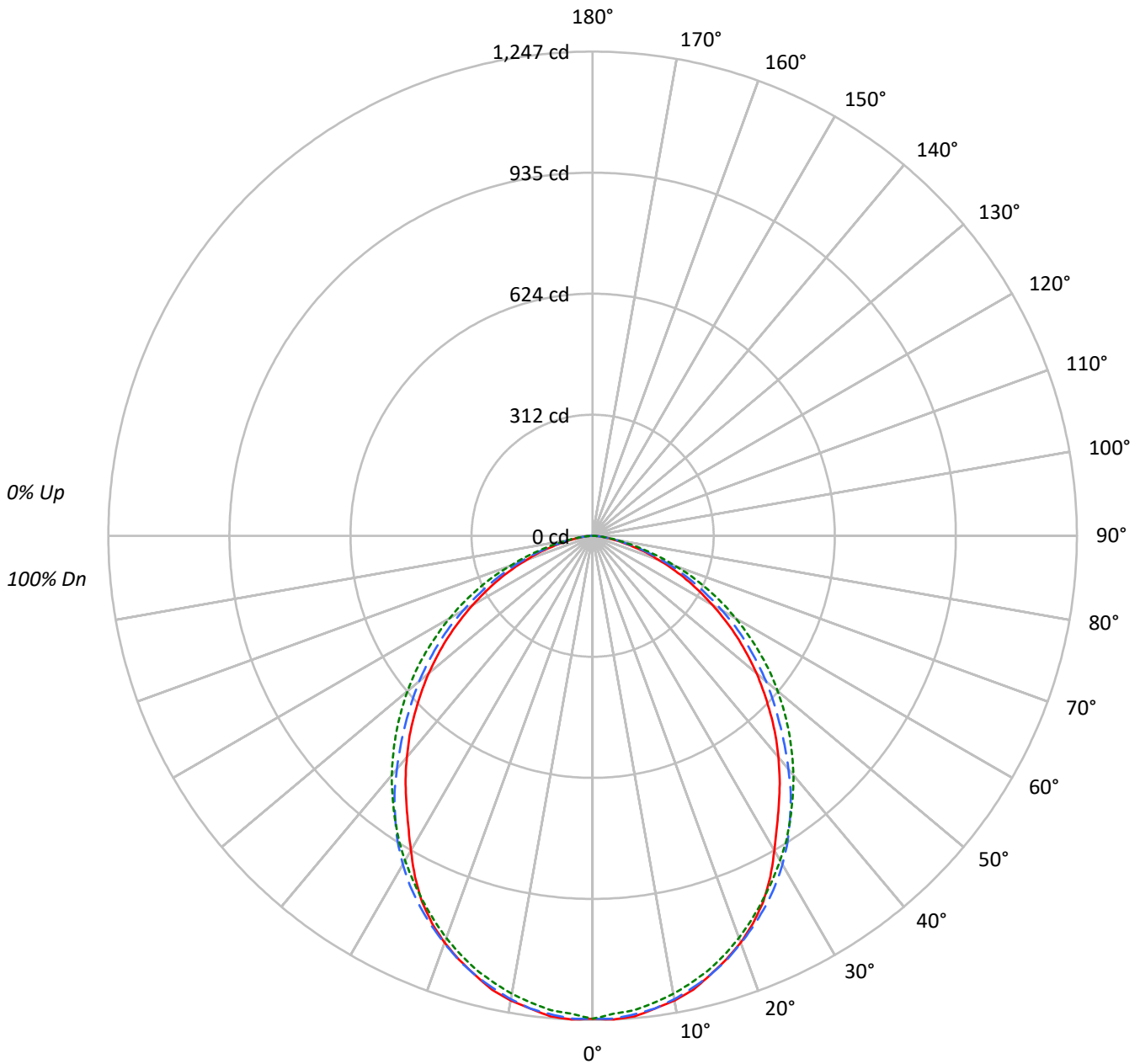
Lumens per Lamp: N/A
Luminaire Lumens: 2876.0 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
Input Voltage (V): NR
Input Current (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°	6694	6694	6694
5°	6712	6683	6627
10°	6641	6622	6547
15°	6523	6523	6448
20°	6385	6393	6311
25°	6175	6251	6152
30°	5814	6075	6001
35°	5494	5824	5833
40°	5227	5509	5654
45°	4928	5176	5441
50°	4613	4877	5209
55°	4255	4538	4927
60°	3832	4141	4582
65°	3384	3682	4168
70°	2820	3136	3542
75°	2217	2504	2772
80°	1584	1764	1956
85°	1031	1031	976



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.1	4.1
10°-20°	329.0	11.4
20°-30°	480.8	16.7
30°-40°	545.7	19.0
40°-50°	526.8	18.3
50°-60°	434.6	15.1
60°-70°	289.4	10.1
70°-80°	129.5	4.5
80°-90°	23.2	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°	926.9	32.2
0°-40°	1472.6	51.2
0°-60°	2434.0	84.6
0°-90°	2876.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2876.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1244	1244	1244	1244	1244	
5°	1242	1242	1237	1230	1227	118
15°	1171	1174	1171	1165	1157	330
25°	1040	1048	1053	1045	1036	476
35°	836	848	886	891	888	524
45°	648	658	680	711	715	500
55°	454	461	484	510	525	405
65°	266	273	289	310	327	263
75°	107	112	120	126	133	117
85°	17	17	17	16	16	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1243.8	1243.8	1243.8	1243.8	1243.8
2.5°	1247.1	1247.6	1244.8	1237.1	1232.3
5°	1242.4	1241.9	1237.1	1230.4	1226.6
7.5°	1228.5	1229.5	1228.0	1218.5	1213.2
10°	1215.1	1215.6	1211.8	1204.1	1197.9
12.5°	1197.9	1197.4	1192.2	1188.4	1178.3
15°	1170.7	1173.6	1170.7	1165.4	1157.3
17.5°	1144.4	1144.4	1146.3	1137.2	1131.0
20°	1114.8	1116.2	1116.2	1109.0	1101.9
22.5°	1080.4	1084.7	1086.1	1078.5	1069.9
25°	1039.8	1047.9	1052.7	1045.0	1035.9
27.5°	990.5	1003.0	1017.3	1011.6	1001.5
30°	935.6	953.8	977.6	972.9	965.7
32.5°	883.5	901.7	934.6	932.7	928.9
35°	836.2	847.7	886.4	891.2	887.8
37.5°	791.3	801.8	838.1	849.1	846.2
40°	744.0	755.5	784.1	803.7	804.7
42.5°	697.2	708.1	731.6	759.8	759.8
45°	647.5	658.5	680.0	711.0	714.8
47.5°	598.7	610.2	631.2	662.3	668.5
50°	550.9	561.5	582.5	612.6	622.1
52.5°	501.2	512.7	533.3	561.0	574.8
55°	453.5	461.1	483.6	510.3	525.1
57.5°	403.8	410.9	436.3	459.2	474.5
60°	356.0	365.1	384.7	408.1	425.7
62.5°	310.1	319.7	336.4	356.9	377.0
65°	265.7	272.8	289.1	309.6	327.3
67.5°	222.7	228.9	245.1	259.5	278.1
70°	179.2	187.3	199.3	213.1	225.1
72.5°	144.3	147.6	157.7	167.7	180.1
75°	106.6	112.3	120.4	126.1	133.3
77.5°	76.5	79.8	84.6	89.4	96.0
80°	51.1	52.6	56.9	57.8	63.1
82.5°	31.1	32.0	33.0	33.4	35.4
85°	16.7	16.7	16.7	15.8	15.8
87.5°	9.6	9.6	8.1	6.7	4.8
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)