

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: P555744

Luminaire Tested: **FUSL-12-2-LD4-3LO-35-UNV-93-84-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: P555744
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-93-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS 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

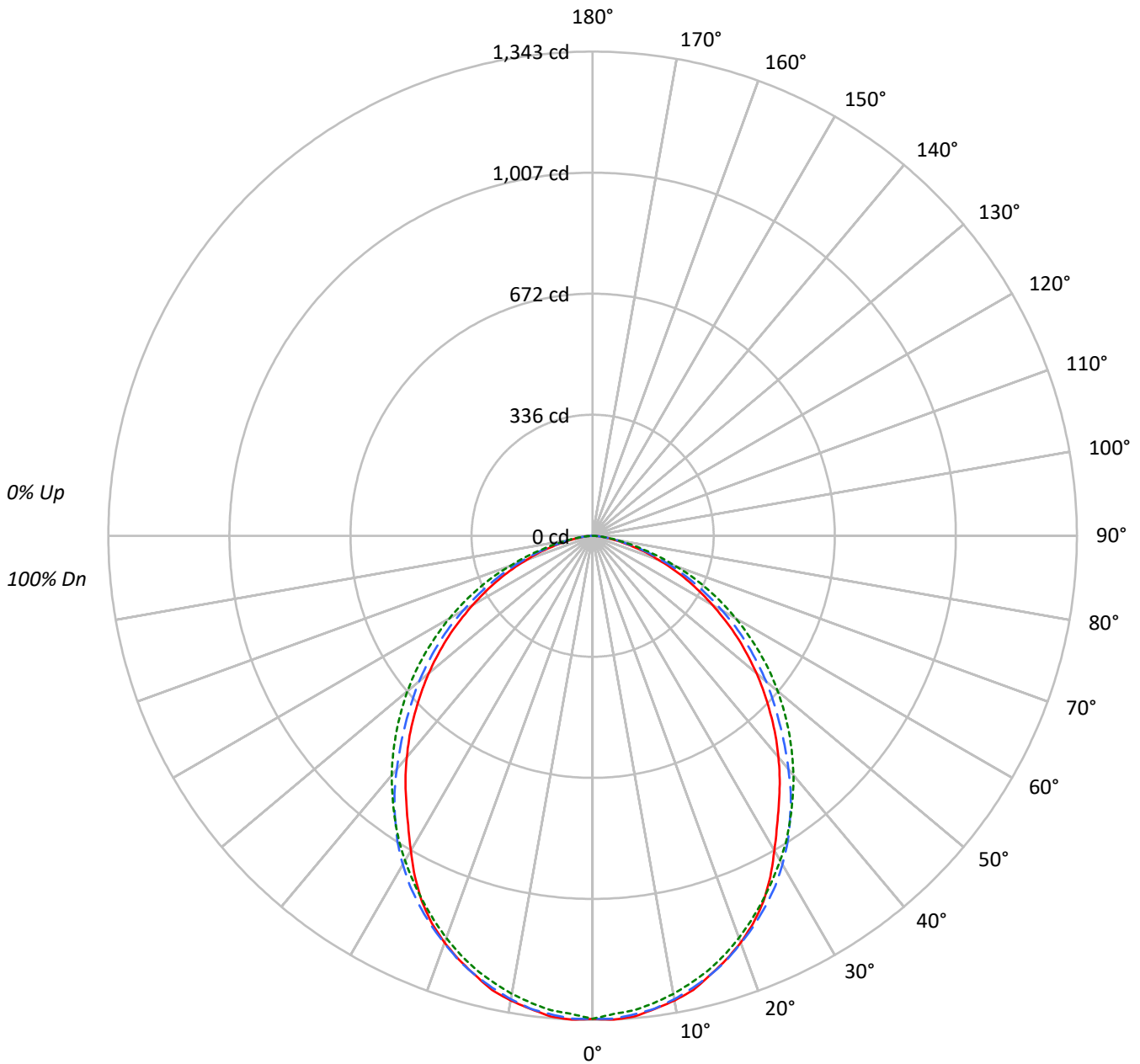
Lumens per Lamp: N/A
Luminaire Lumens: 3098.0 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	7211	7211	7211
5°	7230	7199	7138
10°	7153	7133	7052
15°	7027	7027	6946
20°	6877	6887	6798
25°	6651	6733	6627
30°	6263	6545	6464
35°	5918	6273	6283
40°	5630	5934	6090
45°	5308	5574	5861
50°	4969	5253	5611
55°	4584	4888	5308
60°	4128	4459	4936
65°	3645	3966	4490
70°	3037	3377	3814
75°	2387	2697	2986
80°	1708	1900	2104
85°	1112	1112	1050



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.1	4.1
10°-20°	354.4	11.4
20°-30°	517.9	16.7
30°-40°	587.8	19.0
40°-50°	567.5	18.3
50°-60°	468.1	15.1
60°-70°	311.7	10.1
70°-80°	139.5	4.5
80°-90°	25.0	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°	998.4	32.2
0°-40°	1586.2	51.2
0°-60°	2621.8	84.6
0°-90°	3098.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3098.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1340	1340	1340	1340	1340	
5°	1338	1338	1333	1325	1321	127
15°	1261	1264	1261	1255	1247	355
25°	1120	1129	1134	1126	1116	513
35°	901	913	955	960	956	564
45°	697	709	732	766	770	538
55°	488	497	521	550	566	436
65°	286	294	311	334	353	284
75°	115	121	130	136	144	126
85°	18	18	18	17	17	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1339.8	1339.8	1339.8	1339.8	1339.8
2.5°	1343.4	1343.9	1340.8	1332.6	1327.5
5°	1338.3	1337.7	1332.6	1325.4	1321.3
7.5°	1323.3	1324.4	1322.8	1312.5	1306.9
10°	1308.9	1309.4	1305.3	1297.1	1290.4
12.5°	1290.4	1289.9	1284.2	1280.1	1269.3
15°	1261.1	1264.1	1261.1	1255.4	1246.6
17.5°	1232.7	1232.7	1234.8	1225.0	1218.3
20°	1200.8	1202.4	1202.4	1194.7	1186.9
22.5°	1163.8	1168.4	1169.9	1161.7	1152.4
25°	1120.0	1128.8	1133.9	1125.7	1115.9
27.5°	1067.0	1080.4	1095.8	1089.7	1078.8
30°	1007.8	1027.4	1053.1	1048.0	1040.2
32.5°	951.7	971.3	1006.8	1004.7	1000.6
35°	900.8	913.1	954.8	959.9	956.3
37.5°	852.4	863.7	902.8	914.6	911.6
40°	801.4	813.8	844.6	865.8	866.8
42.5°	751.0	762.8	788.0	818.4	818.4
45°	697.4	709.3	732.4	765.9	770.0
47.5°	644.9	657.3	679.9	713.4	720.1
50°	593.5	604.8	627.4	659.9	670.2
52.5°	539.9	552.3	574.4	604.3	619.2
55°	488.5	496.7	520.9	549.7	565.7
57.5°	434.9	442.7	469.9	494.6	511.1
60°	383.5	393.2	414.3	439.6	458.6
62.5°	334.1	344.3	362.4	384.5	406.1
65°	286.2	293.9	311.4	333.5	352.6
67.5°	239.9	246.5	264.0	279.5	299.6
70°	193.0	201.8	214.6	229.6	242.4
72.5°	155.4	159.0	169.9	180.7	194.0
75°	114.8	121.0	129.7	135.9	143.6
77.5°	82.4	86.0	91.1	96.3	103.5
80°	55.1	56.6	61.3	62.3	67.9
82.5°	33.5	34.5	35.5	36.0	38.1
85°	18.0	18.0	18.0	17.0	17.0
87.5°	10.3	10.3	8.8	7.2	5.1
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)