

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: P555271

Luminaire Tested: **FUSL-12-2-LD4-2STD-40-UNV-81-87-EDD**

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: P555271
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-LD4-2STD-40-UNV-81-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

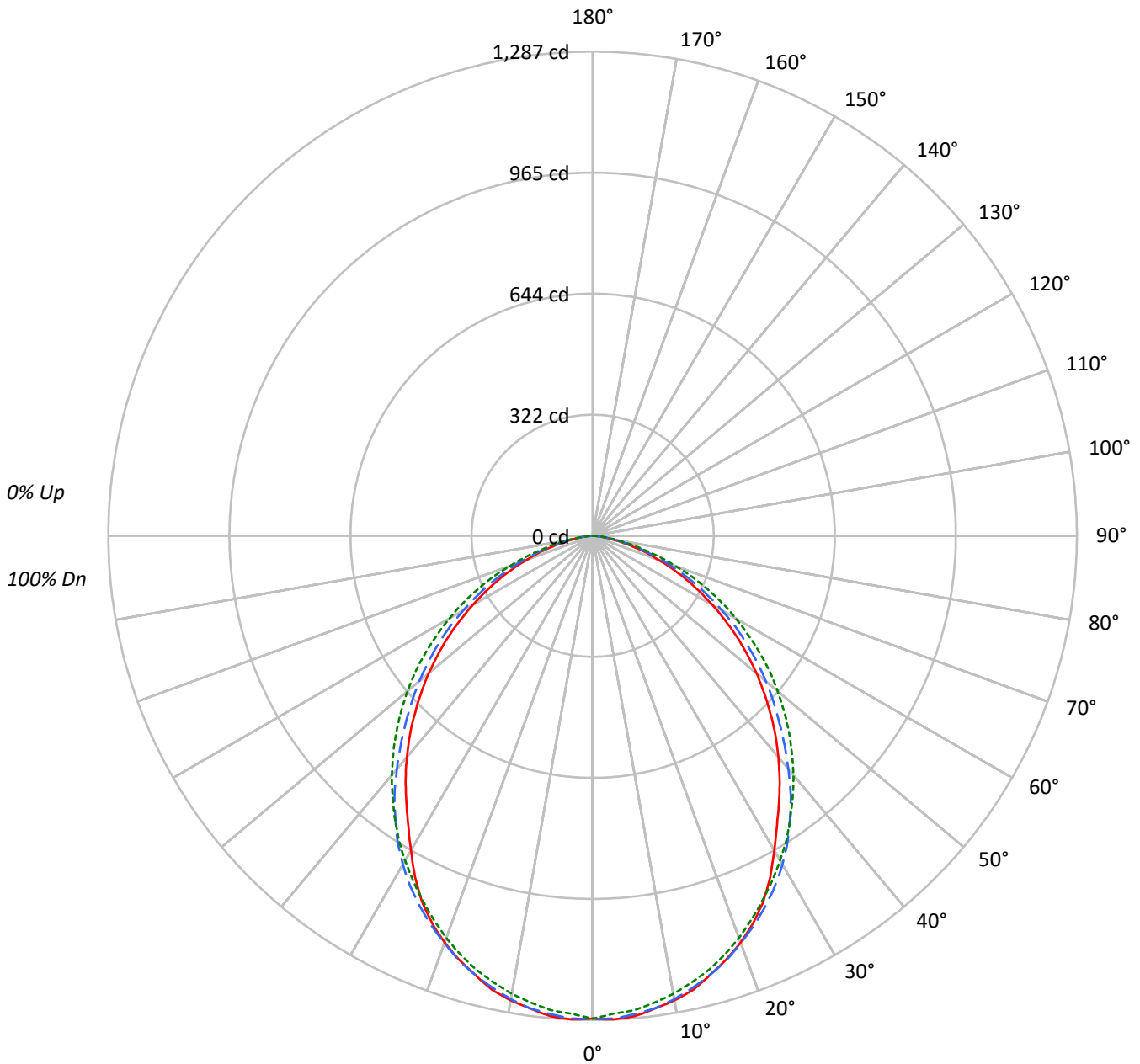
Lumens per Lamp: N/A
Luminaire Lumens: 2968.0 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	6908	6908	6908
5°	6927	6897	6839
10°	6853	6834	6756
15°	6731	6731	6654
20°	6589	6597	6513
25°	6372	6451	6349
30°	6000	6270	6193
35°	5670	6010	6020
40°	5394	5685	5834
45°	5086	5341	5615
50°	4761	5033	5375
55°	4391	4682	5085
60°	3955	4273	4730
65°	3492	3799	4302
70°	2910	3235	3655
75°	2287	2585	2861
80°	1636	1819	2018
85°	1068	1068	1007



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.9	4.1
10°-20°	339.5	11.4
20°-30°	496.1	16.7
30°-40°	563.2	19.0
40°-50°	543.7	18.3
50°-60°	448.5	15.1
60°-70°	298.7	10.1
70°-80°	133.7	4.5
80°-90°	23.9	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°	956.5	32.2
0°-40°	1519.7	51.2
0°-60°	2511.8	84.6
0°-90°	2968.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2968.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1284	1284	1284	1284	1284	
5°	1282	1282	1277	1270	1266	121
15°	1208	1211	1208	1203	1194	341
25°	1073	1081	1086	1078	1069	491
35°	863	875	915	920	916	541
45°	668	680	702	734	738	516
55°	468	476	499	527	542	418
65°	274	282	298	320	338	272
75°	110	116	124	130	138	120
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°	1283.6	1283.6	1283.6	1283.6	1283.6
2.5°	1287.0	1287.5	1284.6	1276.7	1271.7
5°	1282.1	1281.6	1276.7	1269.8	1265.8
7.5°	1267.8	1268.8	1267.3	1257.4	1252.0
10°	1254.0	1254.5	1250.5	1242.7	1236.2
12.5°	1236.2	1235.8	1230.3	1226.4	1216.0
15°	1208.1	1211.1	1208.1	1202.7	1194.3
17.5°	1181.0	1181.0	1183.0	1173.6	1167.2
20°	1150.4	1151.9	1151.9	1144.5	1137.1
22.5°	1114.9	1119.4	1120.9	1113.0	1104.1
25°	1073.0	1081.4	1086.3	1078.4	1069.1
27.5°	1022.2	1035.1	1049.8	1043.9	1033.6
30°	965.5	984.3	1008.9	1004.0	996.6
32.5°	911.8	930.5	964.5	962.6	958.6
35°	863.0	874.8	914.7	919.7	916.2
37.5°	816.6	827.5	864.9	876.3	873.3
40°	767.8	779.6	809.2	829.4	830.4
42.5°	719.5	730.8	755.0	784.1	784.1
45°	668.2	679.5	701.7	733.8	737.7
47.5°	617.9	629.7	651.4	683.5	689.9
50°	568.6	579.4	601.1	632.2	642.0
52.5°	517.3	529.1	550.3	578.9	593.2
55°	468.0	475.9	499.0	526.6	541.9
57.5°	416.7	424.1	450.2	473.9	489.7
60°	367.4	376.7	397.0	421.1	439.4
62.5°	320.0	329.9	347.2	368.4	389.1
65°	274.2	281.6	298.3	319.5	337.8
67.5°	229.8	236.2	253.0	267.8	287.0
70°	184.9	193.3	205.6	219.9	232.3
72.5°	148.9	152.4	162.7	173.1	185.9
75°	110.0	115.9	124.3	130.2	137.6
77.5°	78.9	82.4	87.3	92.2	99.1
80°	52.8	54.2	58.7	59.7	65.1
82.5°	32.1	33.0	34.0	34.5	36.5
85°	17.3	17.3	17.3	16.3	16.3
87.5°	9.9	9.9	8.4	6.9	4.9
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)