

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: P555799

Luminaire Tested: **FUSL-12-2-LD4-3LO-40-UNV-82-87-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: P555799
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-40-UNV-82-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 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

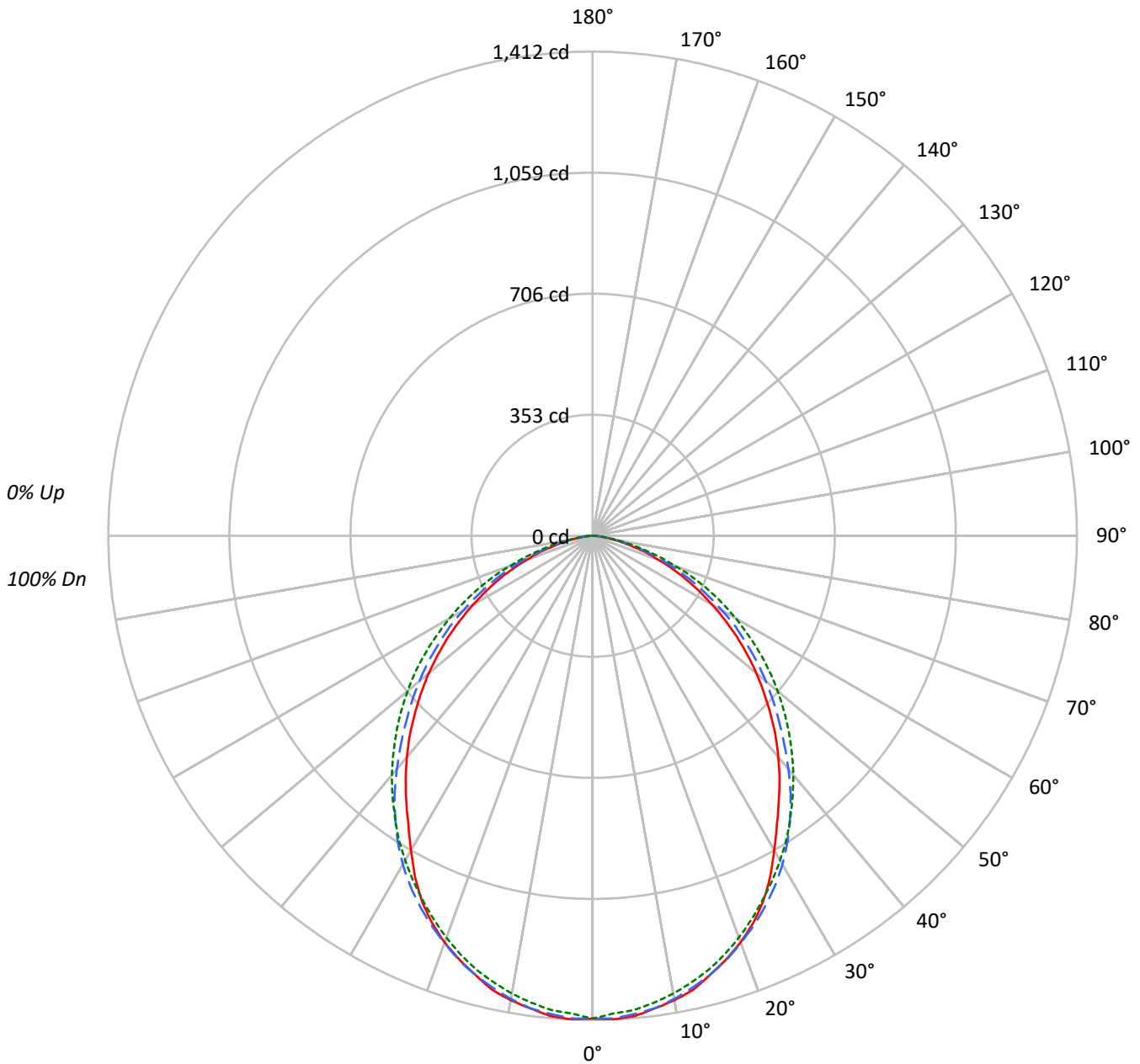
Lumens per Lamp: N/A
Luminaire Lumens: 3255.0 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	7576	7576	7576
5°	7596	7564	7500
10°	7516	7495	7409
15°	7383	7383	7298
20°	7226	7235	7143
25°	6988	7075	6963
30°	6581	6876	6793
35°	6218	6591	6602
40°	5916	6235	6398
45°	5578	5858	6157
50°	5220	5519	5895
55°	4815	5135	5576
60°	4337	4686	5187
65°	3829	4167	4717
70°	3191	3548	4008
75°	2508	2834	3138
80°	1795	1996	2213
85°	1167	1167	1099



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.5	4.1
10°-20°	372.3	11.4
20°-30°	544.1	16.7
30°-40°	617.6	19.0
40°-50°	596.2	18.3
50°-60°	491.8	15.1
60°-70°	327.5	10.1
70°-80°	146.6	4.5
80°-90°	26.2	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°	1049.0	32.2
0°-40°	1666.6	51.2
0°-60°	2754.7	84.6
0°-90°	3255.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3255.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1408	1408	1408	1408	1408	
5°	1406	1406	1400	1393	1388	133
15°	1325	1328	1325	1319	1310	374
25°	1177	1186	1191	1183	1172	539
35°	946	959	1003	1009	1005	593
45°	733	745	770	805	809	565
55°	513	522	547	578	594	458
65°	301	309	327	350	370	298
75°	121	127	136	143	151	132
85°	19	19	19	18	18	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1407.7	1407.7	1407.7	1407.7	1407.7
2.5°	1411.5	1412.0	1408.8	1400.1	1394.7
5°	1406.1	1405.5	1400.1	1392.6	1388.2
7.5°	1390.4	1391.5	1389.9	1379.0	1373.1
10°	1375.3	1375.8	1371.5	1362.8	1355.8
12.5°	1355.8	1355.2	1349.3	1345.0	1333.6
15°	1325.0	1328.2	1325.0	1319.0	1309.8
17.5°	1295.2	1295.2	1297.4	1287.1	1280.1
20°	1261.7	1263.3	1263.3	1255.2	1247.1
22.5°	1222.7	1227.6	1229.2	1220.6	1210.9
25°	1176.8	1186.0	1191.4	1182.7	1172.5
27.5°	1121.1	1135.1	1151.4	1144.9	1133.5
30°	1058.9	1079.4	1106.5	1101.1	1093.0
32.5°	999.9	1020.5	1057.8	1055.6	1051.3
35°	946.4	959.4	1003.2	1008.6	1004.8
37.5°	895.6	907.5	948.6	961.0	957.8
40°	842.0	855.0	887.5	909.6	910.7
42.5°	789.0	801.5	828.0	859.9	859.9
45°	732.8	745.2	769.6	804.7	809.0
47.5°	677.6	690.6	714.4	749.5	756.6
50°	623.5	635.4	659.2	693.3	704.1
52.5°	567.3	580.3	603.5	634.9	650.6
55°	513.2	521.9	547.3	577.6	594.3
57.5°	457.0	465.1	493.8	519.7	537.0
60°	402.9	413.2	435.3	461.8	481.9
62.5°	351.0	361.8	380.7	404.0	426.7
65°	300.7	308.8	327.2	350.4	370.4
67.5°	252.0	259.0	277.4	293.7	314.7
70°	202.8	212.0	225.5	241.2	254.7
72.5°	163.3	167.1	178.5	189.8	203.9
75°	120.6	127.1	136.3	142.8	150.9
77.5°	86.5	90.3	95.7	101.1	108.7
80°	57.9	59.5	64.4	65.4	71.4
82.5°	35.2	36.2	37.3	37.9	40.0
85°	18.9	18.9	18.9	17.8	17.8
87.5°	10.8	10.8	9.2	7.6	5.4
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)