

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: P555698

Luminaire Tested: **FUSL-12-2-LD4-3LO-35-UNV-80-85-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: P555698
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-80-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

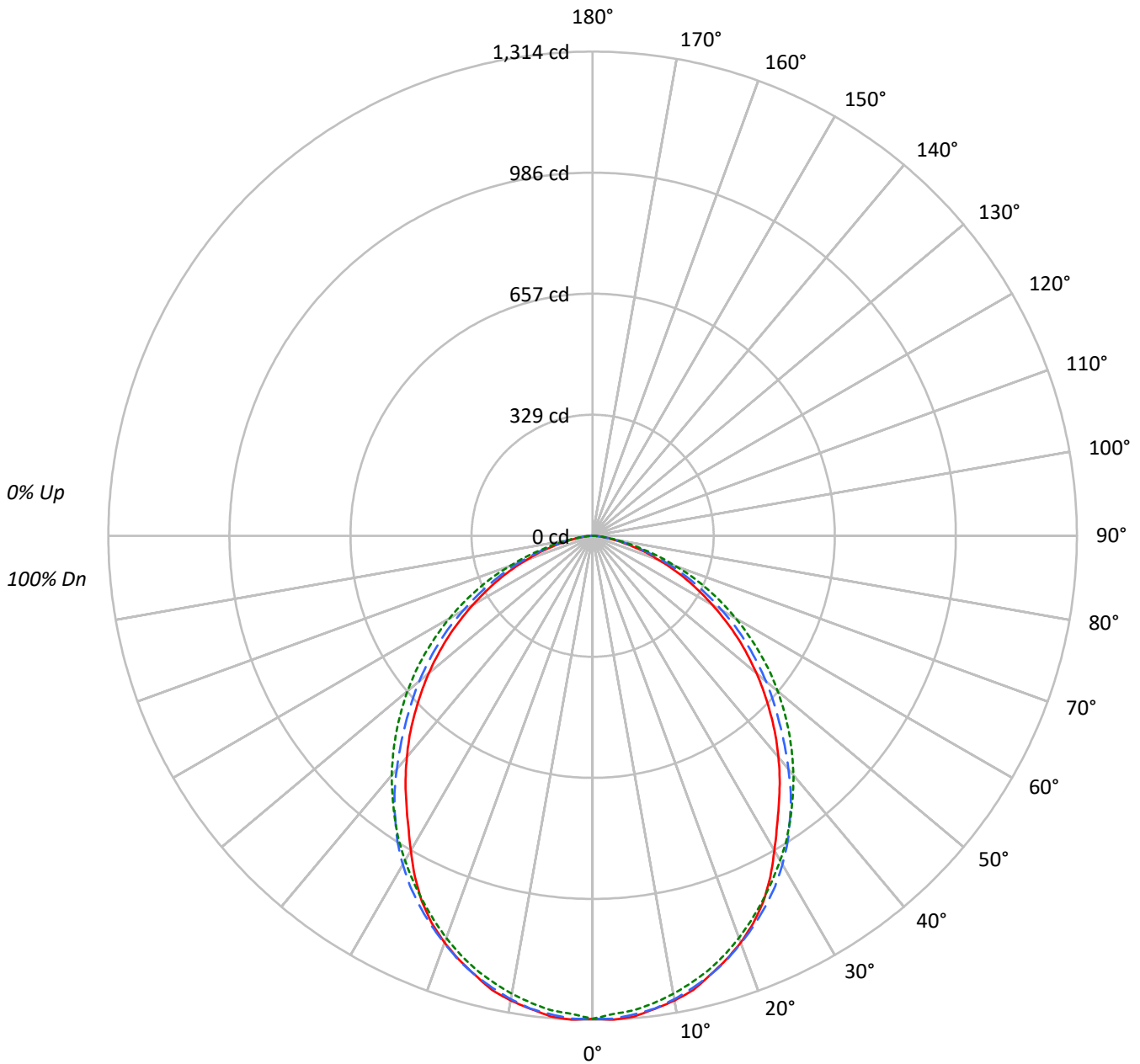
Lumens per Lamp: N/A
Luminaire Lumens: 3031.0 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	7055	7055	7055
5°	7074	7044	6984
10°	6998	6979	6900
15°	6875	6875	6796
20°	6729	6738	6651
25°	6507	6588	6483
30°	6128	6403	6325
35°	5790	6137	6148
40°	5509	5806	5958
45°	5194	5454	5734
50°	4861	5140	5490
55°	4484	4782	5193
60°	4039	4364	4830
65°	3566	3880	4394
70°	2971	3305	3733
75°	2335	2639	2922
80°	1671	1857	2061
85°	1087	1087	1025



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.4	4.1
10°-20°	346.7	11.4
20°-30°	506.7	16.7
30°-40°	575.1	19.0
40°-50°	555.2	18.3
50°-60°	458.0	15.1
60°-70°	305.0	10.1
70°-80°	136.5	4.5
80°-90°	24.4	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°	976.8	32.2
0°-40°	1551.9	51.2
0°-60°	2565.1	84.6
0°-90°	3031.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3031.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1311	1311	1311	1311	1311	
5°	1309	1309	1304	1297	1293	124
15°	1234	1237	1234	1228	1220	348
25°	1096	1104	1109	1101	1092	502
35°	881	893	934	939	936	552
45°	682	694	717	749	753	526
55°	478	486	510	538	553	427
65°	280	288	305	326	345	278
75°	112	118	127	133	140	123
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°	1310.8	1310.8	1310.8	1310.8	1310.8
2.5°	1314.4	1314.9	1311.8	1303.8	1298.7
5°	1309.3	1308.8	1303.8	1296.7	1292.7
7.5°	1294.7	1295.7	1294.2	1284.1	1278.6
10°	1280.6	1281.1	1277.1	1269.0	1262.5
12.5°	1262.5	1262.0	1256.4	1252.4	1241.8
15°	1233.8	1236.8	1233.8	1228.2	1219.7
17.5°	1206.1	1206.1	1208.1	1198.5	1192.0
20°	1174.9	1176.4	1176.4	1168.8	1161.3
22.5°	1138.6	1143.1	1144.6	1136.6	1127.5
25°	1095.8	1104.4	1109.4	1101.3	1091.8
27.5°	1043.9	1057.0	1072.1	1066.1	1055.5
30°	986.0	1005.2	1030.3	1025.3	1017.7
32.5°	931.1	950.3	985.0	983.0	979.0
35°	881.3	893.4	934.1	939.2	935.7
37.5°	833.9	845.0	883.3	894.9	891.8
40°	784.1	796.2	826.4	847.0	848.0
42.5°	734.7	746.3	771.0	800.7	800.7
45°	682.4	693.9	716.6	749.3	753.4
47.5°	631.0	643.1	665.2	698.0	704.5
50°	580.6	591.7	613.9	645.6	655.7
52.5°	528.3	540.3	562.0	591.2	605.8
55°	477.9	486.0	509.6	537.8	553.4
57.5°	425.5	433.1	459.8	483.9	500.1
60°	375.2	384.7	405.4	430.1	448.7
62.5°	326.8	336.9	354.5	376.2	397.3
65°	280.0	287.5	304.7	326.3	345.0
67.5°	234.7	241.2	258.3	273.4	293.1
70°	188.8	197.4	210.0	224.6	237.2
72.5°	152.1	155.6	166.2	176.8	189.9
75°	112.3	118.3	126.9	132.9	140.5
77.5°	80.6	84.1	89.1	94.2	101.2
80°	53.9	55.4	59.9	60.9	66.5
82.5°	32.7	33.7	34.7	35.3	37.3
85°	17.6	17.6	17.6	16.6	16.6
87.5°	10.1	10.1	8.6	7.1	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)