

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: P555135

Luminaire Tested: **FUSL-12-2-LD4-2STD-30-UNV-80-97-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: P555135
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-30-UNV-80-97-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

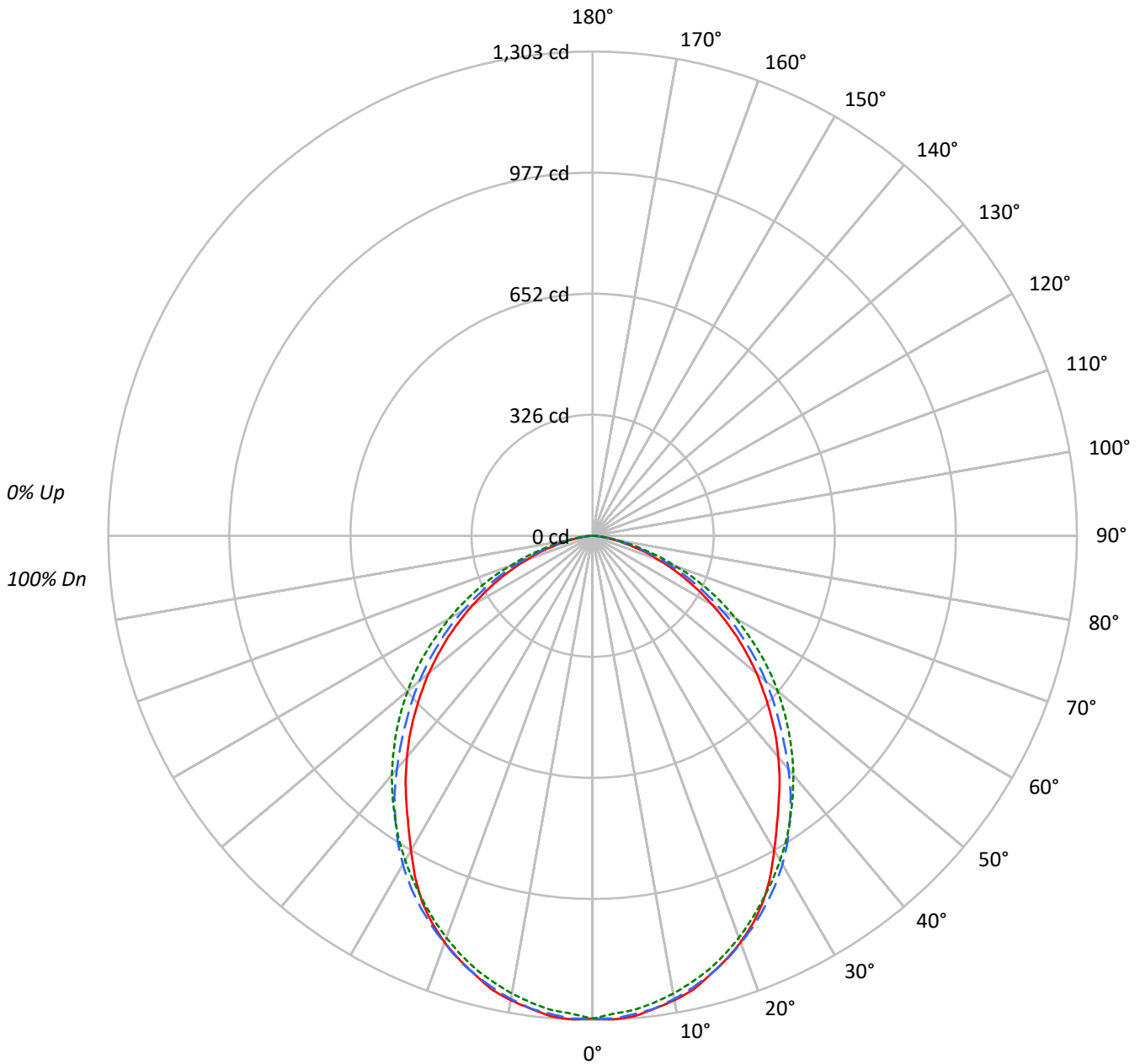
Lumens per Lamp: N/A
Luminaire Lumens: 3004.0 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
Input Voltage (V): NR
Input Current (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°	6992	6992	6992
5°	7011	6981	6922
10°	6936	6917	6838
15°	6813	6813	6735
20°	6669	6678	6592
25°	6449	6529	6425
30°	6073	6346	6269
35°	5738	6083	6093
40°	5460	5754	5905
45°	5147	5406	5683
50°	4819	5094	5441
55°	4444	4739	5147
60°	4002	4325	4787
65°	3534	3846	4354
70°	2946	3275	3699
75°	2314	2616	2895
80°	1655	1841	2042
85°	1081	1081	1019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.3	4.1
10°-20°	343.6	11.4
20°-30°	502.2	16.7
30°-40°	570.0	19.0
40°-50°	550.3	18.3
50°-60°	453.9	15.1
60°-70°	302.3	10.1
70°-80°	135.3	4.5
80°-90°	24.2	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°	968.1	32.2
0°-40°	1538.1	51.2
0°-60°	2542.3	84.6
0°-90°	3004.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3004.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1299	1299	1299	1299	1299	
5°	1298	1297	1292	1285	1281	123
15°	1223	1226	1223	1217	1209	345
25°	1086	1094	1100	1092	1082	497
35°	873	885	926	931	927	547
45°	676	688	710	743	747	522
55°	474	482	505	533	548	423
65°	278	285	302	323	342	275
75°	111	117	126	132	139	122
85°	18	18	18	16	16	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1299.2	1299.2	1299.2	1299.2	1299.2
2.5°	1302.6	1303.1	1300.2	1292.2	1287.2
5°	1297.7	1297.2	1292.2	1285.2	1281.2
7.5°	1283.2	1284.2	1282.7	1272.7	1267.2
10°	1269.2	1269.7	1265.7	1257.7	1251.2
12.5°	1251.2	1250.7	1245.2	1241.3	1230.8
15°	1222.8	1225.8	1222.8	1217.3	1208.8
17.5°	1195.3	1195.3	1197.3	1187.9	1181.4
20°	1164.4	1165.9	1165.9	1158.4	1150.9
22.5°	1128.5	1133.0	1134.5	1126.5	1117.5
25°	1086.0	1094.5	1099.5	1091.5	1082.0
27.5°	1034.6	1047.6	1062.6	1056.6	1046.1
30°	977.2	996.2	1021.2	1016.2	1008.7
32.5°	922.8	941.8	976.2	974.2	970.2
35°	873.4	885.4	925.8	930.8	927.3
37.5°	826.5	837.5	875.4	886.9	883.9
40°	777.1	789.1	819.0	839.5	840.5
42.5°	728.2	739.7	764.1	793.6	793.6
45°	676.3	687.8	710.2	742.7	746.7
47.5°	625.4	637.3	659.3	691.8	698.2
50°	575.5	586.4	608.4	639.8	649.8
52.5°	523.6	535.5	557.0	585.9	600.4
55°	473.6	481.6	505.1	533.0	548.5
57.5°	421.7	429.2	455.7	479.6	495.6
60°	371.8	381.3	401.8	426.2	444.7
62.5°	323.9	333.9	351.4	372.8	393.8
65°	277.5	285.0	302.0	323.4	341.9
67.5°	232.6	239.1	256.0	271.0	290.5
70°	187.2	195.6	208.1	222.6	235.1
72.5°	150.7	154.2	164.7	175.2	188.2
75°	111.3	117.3	125.8	131.8	139.2
77.5°	79.9	83.3	88.3	93.3	100.3
80°	53.4	54.9	59.4	60.4	65.9
82.5°	32.4	33.4	34.4	34.9	36.9
85°	17.5	17.5	17.5	16.5	16.5
87.5°	10.0	10.0	8.5	7.0	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)