

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: P555769

Luminaire Tested: **FUSL-12-2-LD4-3LO-40-UNV-80-88-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: P555769
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-80-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

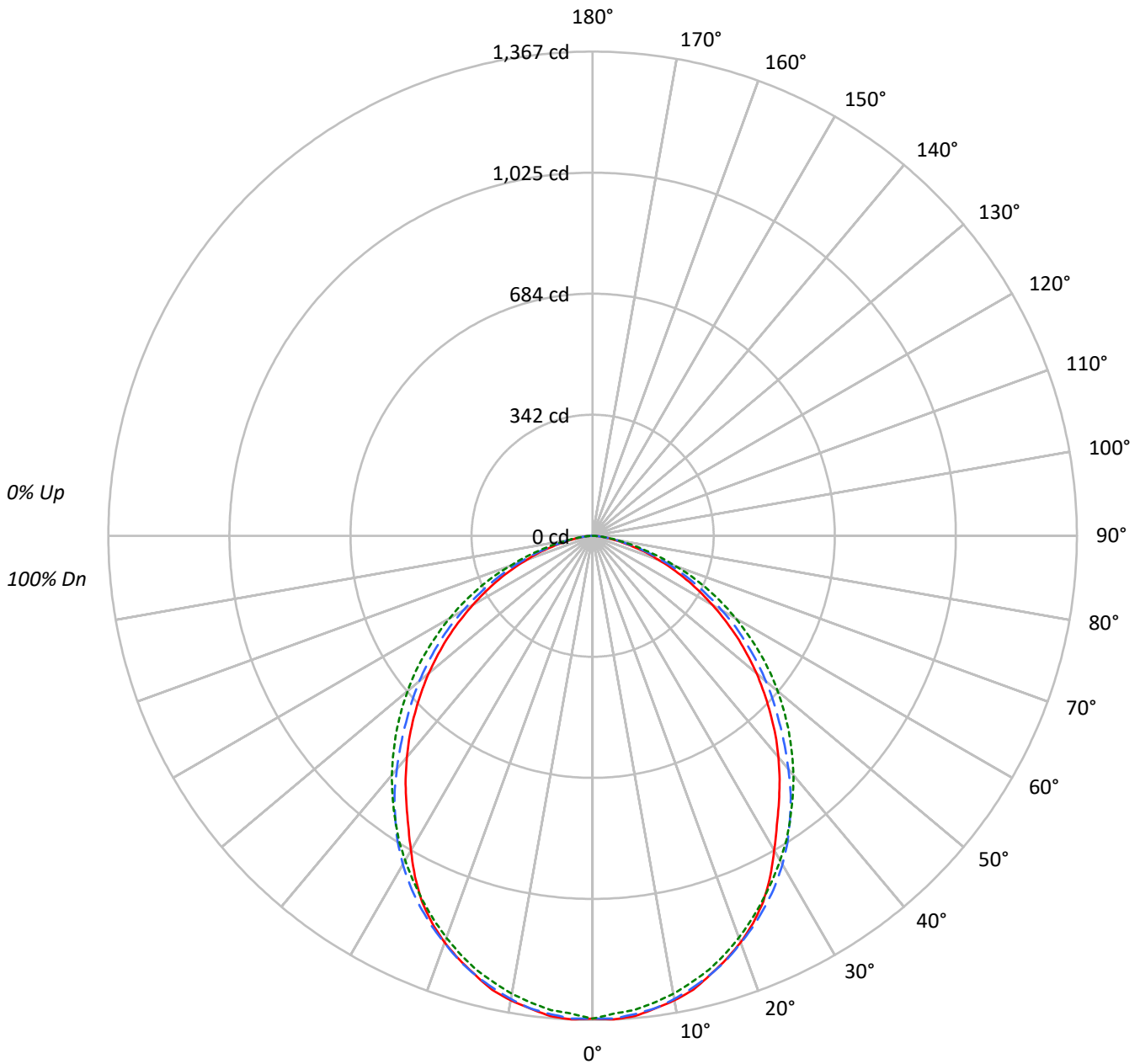
Lumens per Lamp: N/A
Luminaire Lumens: 3152.0 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	7337	7337	7337
5°	7356	7325	7263
10°	7278	7258	7175
15°	7149	7149	7067
20°	6998	7006	6916
25°	6767	6851	6742
30°	6372	6659	6577
35°	6022	6382	6393
40°	5729	6038	6196
45°	5401	5672	5963
50°	5056	5345	5709
55°	4663	4973	5400
60°	4199	4538	5022
65°	3708	4034	4568
70°	3091	3437	3882
75°	2429	2745	3038
80°	1736	1931	2142
85°	1130	1130	1068



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.3	4.1
10°-20°	360.6	11.4
20°-30°	526.9	16.7
30°-40°	598.1	19.0
40°-50°	577.4	18.3
50°-60°	476.3	15.1
60°-70°	317.2	10.1
70°-80°	141.9	4.5
80°-90°	25.4	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°	1015.8	32.2
0°-40°	1613.9	51.2
0°-60°	2667.5	84.6
0°-90°	3152.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3152.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1363	1363	1363	1363	1363	
5°	1362	1361	1356	1348	1344	129
15°	1283	1286	1283	1277	1268	362
25°	1140	1148	1154	1145	1135	522
35°	916	929	971	977	973	574
45°	710	722	745	779	783	548
55°	497	505	530	559	576	444
65°	291	299	317	339	359	289
75°	117	123	132	138	146	128
85°	18	18	18	17	17	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1363.2	<i>1363.2</i>	1363.2	1363.2	1363.2
2.5°	<i>1366.8</i>	<i>1367.3</i>	<i>1364.2</i>	<i>1355.8</i>	<i>1350.6</i>
5°	1361.6	<i>1361.1</i>	1355.8	1348.5	1344.3
7.5°	1346.4	<i>1347.4</i>	1345.9	1335.4	1329.6
10°	1331.7	<i>1332.3</i>	1328.1	1319.7	1312.9
12.5°	1312.9	<i>1312.4</i>	1306.6	1302.4	1291.4
15°	1283.0	<i>1286.2</i>	1283.0	1277.3	1268.4
17.5°	1254.2	<i>1254.2</i>	1256.3	1246.4	1239.6
20°	1221.8	<i>1223.3</i>	1223.3	1215.5	1207.6
22.5°	1184.1	<i>1188.8</i>	1190.3	1182.0	1172.5
25°	1139.5	<i>1148.4</i>	1153.7	1145.3	1135.4
27.5°	1085.6	<i>1099.2</i>	1114.9	1108.6	1097.6
30°	1025.4	<i>1045.3</i>	1071.5	1066.2	1058.4
32.5°	968.3	<i>988.2</i>	1024.3	1022.2	1018.0
35°	916.5	<i>929.0</i>	971.4	976.7	973.0
37.5°	867.2	<i>878.7</i>	918.5	930.6	927.5
40°	815.4	<i>827.9</i>	859.4	880.8	881.9
42.5°	764.1	<i>776.1</i>	801.8	832.7	832.7
45°	709.6	<i>721.6</i>	745.2	779.2	783.4
47.5°	656.2	<i>668.7</i>	691.8	725.8	732.6
50°	603.8	<i>615.3</i>	638.4	671.4	681.8
52.5°	549.3	<i>561.9</i>	584.4	614.8	630.0
55°	497.0	<i>505.4</i>	530.0	559.3	575.5
57.5°	442.5	<i>450.4</i>	478.1	503.3	520.0
60°	390.1	<i>400.1</i>	421.6	447.2	466.6
62.5°	339.9	<i>350.3</i>	368.7	391.2	413.2
65°	291.2	<i>299.0</i>	316.8	339.3	358.7
67.5°	244.0	<i>250.8</i>	268.7	284.4	304.8
70°	196.4	<i>205.3</i>	218.4	233.6	246.7
72.5°	158.2	<i>161.8</i>	172.8	183.8	197.4
75°	116.8	<i>123.1</i>	132.0	138.3	146.1
77.5°	83.8	<i>87.5</i>	92.7	97.9	105.3
80°	56.0	<i>57.6</i>	62.3	63.4	69.1
82.5°	34.0	<i>35.1</i>	36.1	36.7	38.8
85°	18.3	<i>18.3</i>	18.3	17.3	17.3
87.5°	10.5	<i>10.5</i>	8.9	7.3	5.2
90°	0.0	<i>0.0</i>	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)