

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: P555312

Luminaire Tested: **FUSL-12-2-LD4-2STD-50-UNV-80-84-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: P555312
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-50-UNV-80-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

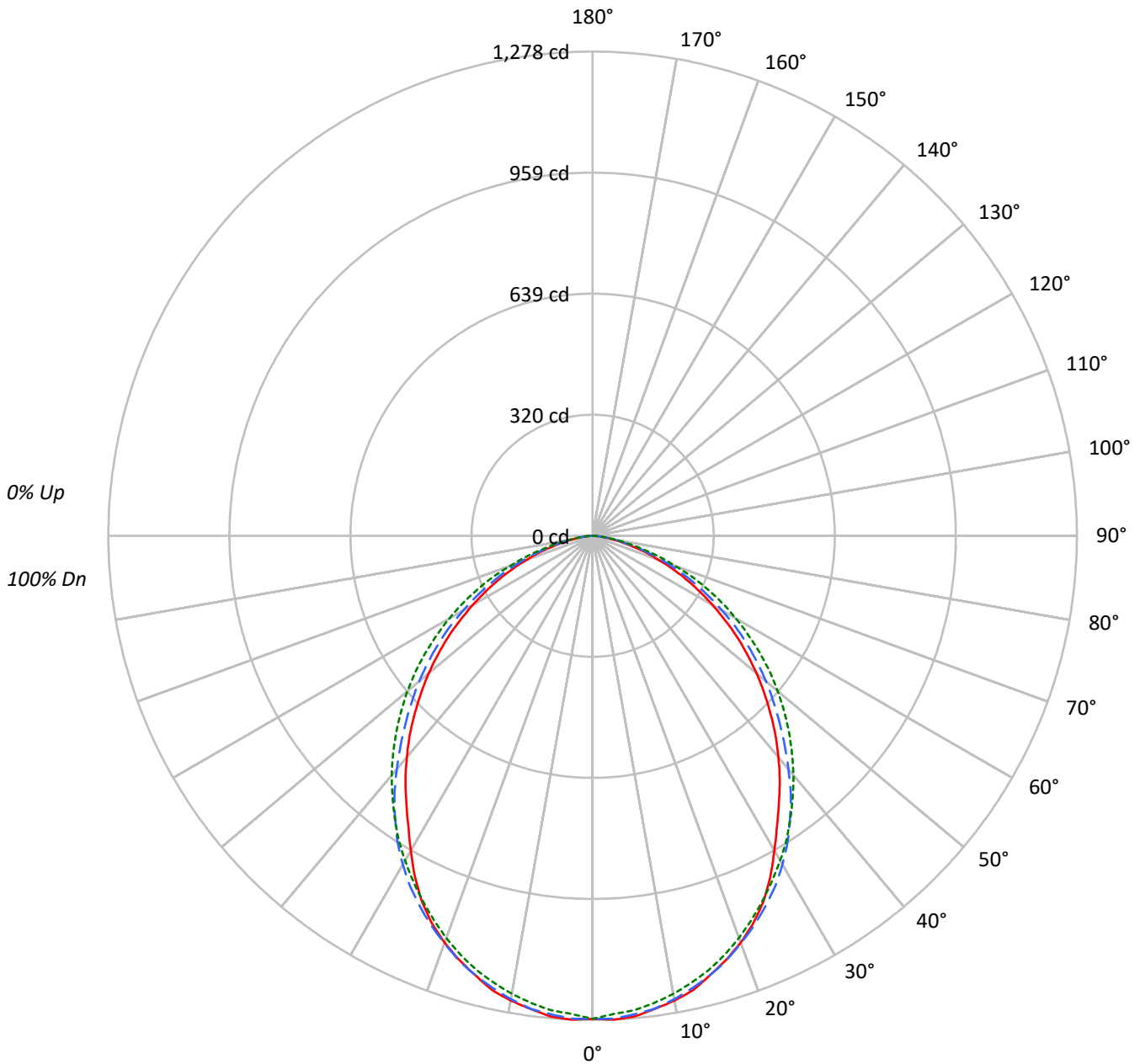
Lumens per Lamp: N/A
Luminaire Lumens: 2948.0 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	6861	6861	6861
5°	6880	6851	6793
10°	6807	6788	6710
15°	6686	6686	6610
20°	6545	6553	6469
25°	6329	6407	6306
30°	5960	6228	6152
35°	5631	5970	5979
40°	5358	5647	5795
45°	5052	5305	5577
50°	4728	4999	5339
55°	4361	4651	5051
60°	3928	4244	4697
65°	3468	3773	4273
70°	2891	3213	3630
75°	2271	2566	2843
80°	1624	1807	2005
85°	1056	1056	1000



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.0	4.1
10°-20°	337.2	11.4
20°-30°	492.8	16.7
30°-40°	559.4	19.0
40°-50°	540.0	18.3
50°-60°	445.5	15.1
60°-70°	296.6	10.1
70°-80°	132.7	4.5
80°-90°	23.7	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°	950.1	32.2
0°-40°	1509.4	51.2
0°-60°	2494.9	84.6
0°-90°	2948.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2948.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1275	1275	1275	1275	1275	
5°	1274	1273	1268	1261	1257	121
15°	1200	1203	1200	1195	1186	338
25°	1066	1074	1079	1071	1062	488
35°	857	869	909	914	910	537
45°	664	675	697	729	733	512
55°	465	473	496	523	538	415
65°	272	280	296	317	336	270
75°	109	115	123	129	137	119
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°	1274.9	1274.9	1274.9	1274.9	1274.9
2.5°	1278.4	1278.9	1275.9	1268.1	1263.2
5°	1273.5	1273.0	1268.1	1261.2	1257.3
7.5°	1259.3	1260.2	1258.8	1249.0	1243.6
10°	1245.5	1246.0	1242.1	1234.3	1227.9
12.5°	1227.9	1227.4	1222.0	1218.1	1207.8
15°	1200.0	1202.9	1200.0	1194.6	1186.3
17.5°	1173.1	1173.1	1175.0	1165.7	1159.3
20°	1142.7	1144.2	1144.2	1136.8	1129.5
22.5°	1107.4	1111.8	1113.3	1105.5	1096.6
25°	1065.8	1074.1	1079.0	1071.2	1061.9
27.5°	1015.3	1028.1	1042.8	1036.9	1026.6
30°	959.0	977.6	1002.1	997.2	989.9
32.5°	905.6	924.2	958.0	956.1	952.2
35°	857.1	868.9	908.6	913.5	910.0
37.5°	811.1	821.9	859.1	870.4	867.4
40°	762.6	774.4	803.8	823.8	824.8
42.5°	714.6	725.9	749.9	778.8	778.8
45°	663.7	674.9	697.0	728.8	732.7
47.5°	613.7	625.5	647.0	678.9	685.2
50°	564.7	575.5	597.1	627.9	637.7
52.5°	513.8	525.5	546.6	575.0	589.2
55°	464.8	472.7	495.7	523.1	538.3
57.5°	413.9	421.2	447.2	470.7	486.4
60°	364.9	374.2	394.3	418.3	436.4
62.5°	317.9	327.7	344.8	365.9	386.4
65°	272.3	279.7	296.3	317.4	335.5
67.5°	228.2	234.6	251.3	266.0	285.1
70°	183.7	192.0	204.2	218.4	230.7
72.5°	147.9	151.3	161.6	171.9	184.7
75°	109.2	115.1	123.4	129.3	136.7
77.5°	78.4	81.8	86.7	91.6	98.4
80°	52.4	53.9	58.3	59.3	64.7
82.5°	31.8	32.8	33.8	34.3	36.2
85°	17.1	17.1	17.1	16.2	16.2
87.5°	9.8	9.8	8.3	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)