

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: P555253

Luminaire Tested: **FUSL-12-2-LD4-2STD-40-UNV-80-86-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: P555253
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-40-UNV-80-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

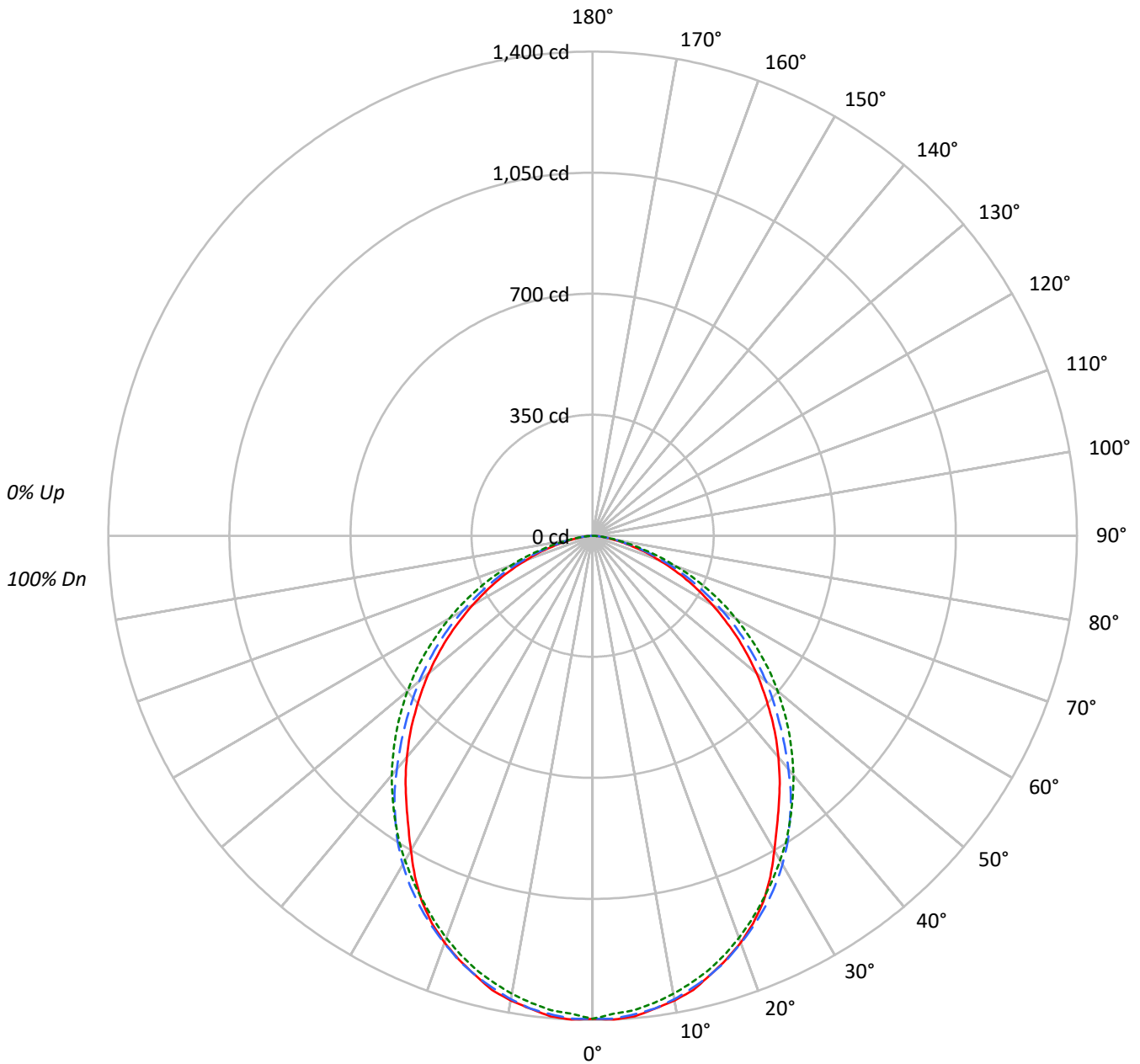
Lumens per Lamp: N/A
Luminaire Lumens: 3229.0 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	7516	7516	7516
5°	7535	7504	7440
10°	7456	7435	7350
15°	7324	7324	7240
20°	7168	7178	7085
25°	6932	7019	6907
30°	6528	6821	6738
35°	6168	6539	6549
40°	5869	6185	6347
45°	5533	5810	6109
50°	5179	5476	5848
55°	4777	5094	5532
60°	4302	4649	5145
65°	3799	4134	4680
70°	3166	3520	3976
75°	2487	2811	3113
80°	1779	1977	2194
85°	1161	1161	1093



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.5	4.1
10°-20°	369.4	11.4
20°-30°	539.8	16.7
30°-40°	612.7	19.0
40°-50°	591.5	18.3
50°-60°	487.9	15.1
60°-70°	324.9	10.1
70°-80°	145.4	4.5
80°-90°	26.0	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°	1040.6	32.2
0°-40°	1653.3	51.2
0°-60°	2732.7	84.6
0°-90°	3229.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3229.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1396	1396	1396	1396	1396	
5°	1395	1394	1389	1381	1377	132
15°	1314	1318	1314	1308	1299	371
25°	1167	1176	1182	1173	1163	535
35°	939	952	995	1000	997	588
45°	727	739	763	798	803	561
55°	509	518	543	573	590	454
65°	298	306	325	348	368	296
75°	120	126	135	142	150	131
85°	19	19	19	18	18	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1396.5	1396.5	1396.5	1396.5	1396.5
2.5°	1400.2	1400.8	1397.5	1388.9	1383.6
5°	1394.8	1394.3	1388.9	1381.4	1377.1
7.5°	1379.3	1380.4	1378.8	1368.0	1362.1
10°	1364.3	1364.8	1360.5	1351.9	1345.0
12.5°	1345.0	1344.4	1338.5	1334.2	1323.0
15°	1314.4	1317.6	1314.4	1308.5	1299.4
17.5°	1284.9	1284.9	1287.0	1276.8	1269.8
20°	1251.6	1253.2	1253.2	1245.2	1237.1
22.5°	1213.0	1217.8	1219.4	1210.8	1201.2
25°	1167.4	1176.5	1181.9	1173.3	1163.1
27.5°	1112.1	1126.1	1142.2	1135.7	1124.5
30°	1050.4	1070.8	1097.6	1092.3	1084.2
32.5°	992.0	1012.3	1049.4	1047.2	1042.9
35°	938.8	951.7	995.2	1000.5	996.8
37.5°	888.4	900.2	941.0	953.3	950.1
40°	835.3	848.2	880.4	902.4	903.4
42.5°	782.7	795.1	821.4	853.0	853.0
45°	726.9	739.3	763.4	798.3	802.6
47.5°	672.2	685.1	708.7	743.6	750.5
50°	618.6	630.4	654.0	687.8	698.5
52.5°	562.8	575.6	598.7	629.8	645.4
55°	509.1	517.7	542.9	573.0	589.6
57.5°	453.3	461.4	489.8	515.6	532.7
60°	399.7	409.9	431.9	458.2	478.0
62.5°	348.2	358.9	377.7	400.8	423.3
65°	298.3	306.3	324.6	347.6	367.5
67.5°	250.0	257.0	275.2	291.3	312.2
70°	201.2	210.3	223.7	239.3	252.7
72.5°	162.0	165.8	177.0	188.3	202.3
75°	119.6	126.1	135.2	141.6	149.7
77.5°	85.8	89.6	95.0	100.3	107.8
80°	57.4	59.0	63.8	64.9	70.8
82.5°	34.9	35.9	37.0	37.6	39.7
85°	18.8	18.8	18.8	17.7	17.7
87.5°	10.7	10.7	9.1	7.5	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)