

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: P554742

Luminaire Tested: **FUSL-12-2-LD4-2HI-40-UNV-80-87-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: P554742
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-LD4-2HI-40-UNV-80-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

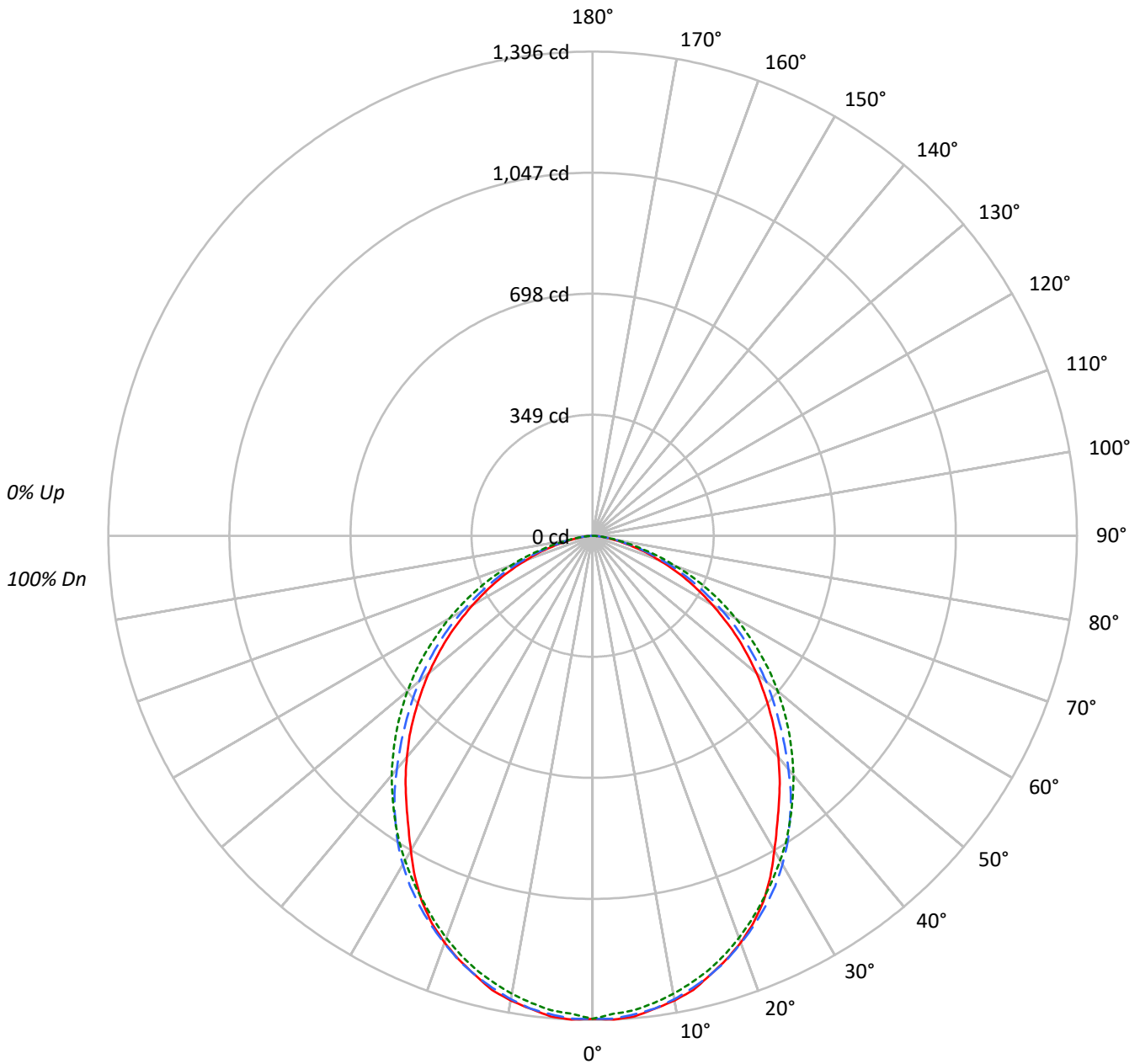
Lumens per Lamp: N/A
Luminaire Lumens: 3220.0 lumens
Efficiency: N/A
Efficacy: 74.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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°	7495	7495	7495
5°	7515	7483	7419
10°	7435	7414	7330
15°	7303	7303	7219
20°	7148	7157	7066
25°	6913	6999	6887
30°	6510	6802	6719
35°	6151	6520	6531
40°	5852	6168	6329
45°	5517	5794	6091
50°	5164	5460	5833
55°	4764	5080	5516
60°	4290	4636	5131
65°	3789	4122	4667
70°	3157	3511	3965
75°	2481	2803	3105
80°	1773	1974	2188
85°	1155	1155	1093



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.1	4.1
10°-20°	368.3	11.4
20°-30°	538.3	16.7
30°-40°	611.0	19.0
40°-50°	589.8	18.3
50°-60°	486.6	15.1
60°-70°	324.0	10.1
70°-80°	145.0	4.5
80°-90°	25.9	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°	1037.7	32.2
0°-40°	1648.7	51.2
0°-60°	2725.1	84.6
0°-90°	3220.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3220.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1393	1393	1393	1393	1393	
5°	1391	1390	1385	1378	1373	132
15°	1311	1314	1311	1305	1296	369
25°	1164	1173	1179	1170	1160	533
35°	936	949	992	998	994	587
45°	725	737	761	796	800	559
55°	508	516	541	571	588	453
65°	298	306	324	347	366	295
75°	119	126	135	141	149	130
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°	1392.6	1392.6	1392.6	1392.6	1392.6
2.5°	1396.3	1396.8	1393.6	1385.1	1379.7
5°	1391.0	1390.4	1385.1	1377.6	1373.3
7.5°	1375.4	1376.5	1374.9	1364.2	1358.3
10°	1360.5	1361.0	1356.7	1348.2	1341.2
12.5°	1341.2	1340.7	1334.8	1330.5	1319.3
15°	1310.7	1313.9	1310.7	1304.8	1295.7
17.5°	1281.3	1281.3	1283.4	1273.3	1266.3
20°	1248.1	1249.7	1249.7	1241.7	1233.7
22.5°	1209.6	1214.4	1216.0	1207.5	1197.8
25°	1164.1	1173.2	1178.6	1170.0	1159.8
27.5°	1109.0	1122.9	1139.0	1132.6	1121.3
30°	1047.5	1067.8	1094.6	1089.2	1081.2
32.5°	989.2	1009.5	1046.4	1044.3	1040.0
35°	936.2	949.1	992.4	997.7	994.0
37.5°	885.9	897.7	938.4	950.7	947.5
40°	833.0	845.8	877.9	899.8	900.9
42.5°	780.5	792.8	819.1	850.6	850.6
45°	724.9	737.2	761.3	796.1	800.3
47.5°	670.3	683.2	706.7	741.5	748.4
50°	616.8	628.6	652.1	685.9	696.6
52.5°	561.2	574.0	597.0	628.1	643.6
55°	507.7	516.3	541.4	571.4	587.9
57.5°	452.1	460.1	488.4	514.1	531.2
60°	398.6	408.7	430.7	456.9	476.7
62.5°	347.2	357.9	376.6	399.6	422.1
65°	297.5	305.5	323.7	346.7	366.5
67.5°	249.3	256.3	274.4	290.5	311.4
70°	200.6	209.7	223.1	238.6	252.0
72.5°	161.6	165.3	176.5	187.8	201.7
75°	119.3	125.7	134.8	141.2	149.3
77.5°	85.6	89.3	94.7	100.0	107.5
80°	57.2	58.8	63.7	64.7	70.6
82.5°	34.8	35.8	36.9	37.4	39.6
85°	18.7	18.7	18.7	17.7	17.7
87.5°	10.7	10.7	9.1	7.5	5.3
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)