

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: P554614

Luminaire Tested: **FUSL-12-2-LD4-2HI-30-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: P554614
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-30-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 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

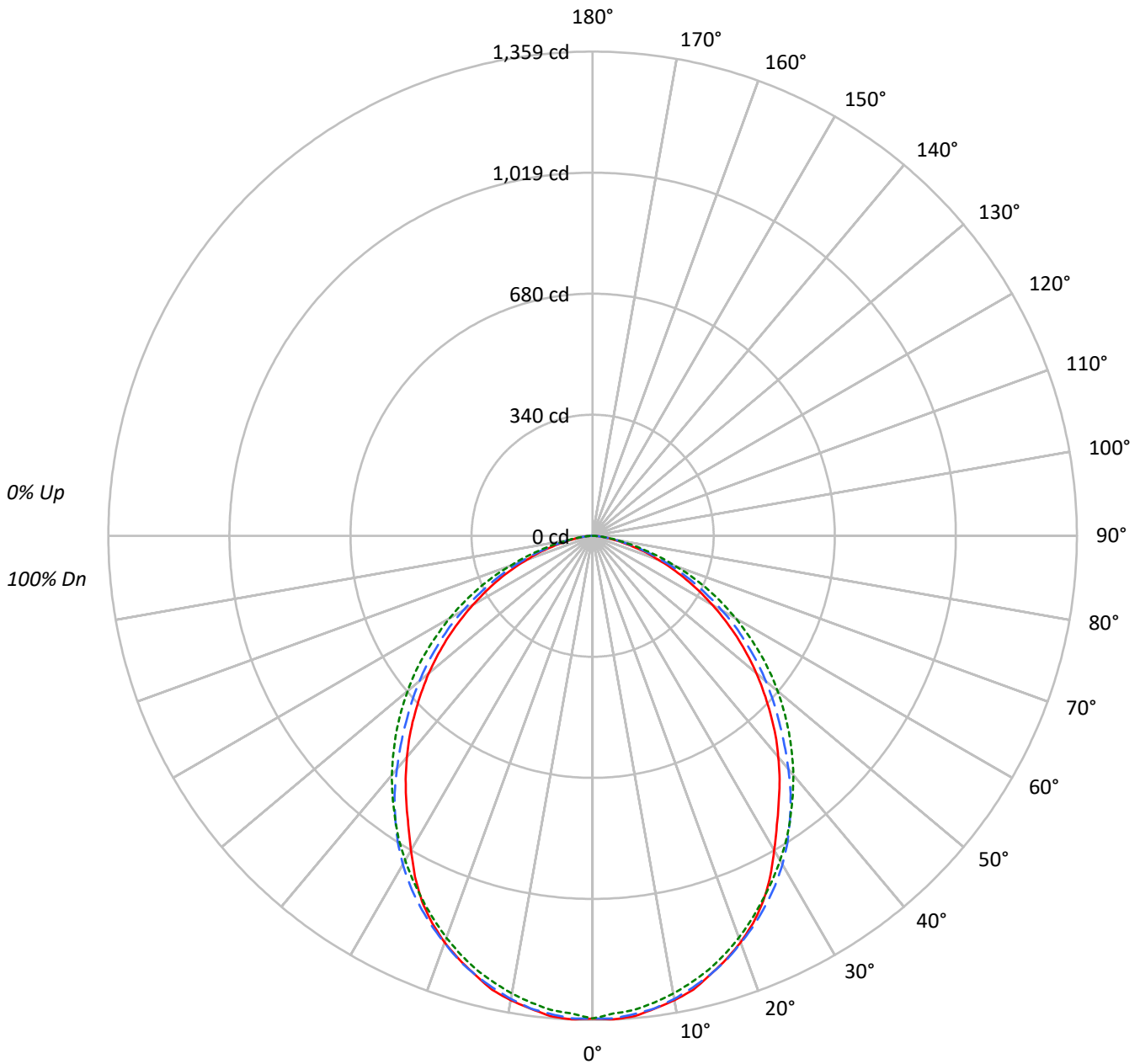
Lumens per Lamp: N/A
Luminaire Lumens: 3133.0 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	7292	7292	7292
5°	7312	7281	7219
10°	7234	7214	7132
15°	7106	7106	7024
20°	6955	6964	6875
25°	6726	6809	6701
30°	6334	6618	6538
35°	5985	6344	6354
40°	5694	6001	6159
45°	5368	5638	5927
50°	5025	5313	5674
55°	4635	4943	5368
60°	4174	4510	4992
65°	3685	4010	4541
70°	3072	3416	3858
75°	2414	2728	3019
80°	1726	1918	2129
85°	1124	1124	1062



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.6	4.1
10°-20°	358.4	11.4
20°-30°	523.7	16.7
30°-40°	594.5	19.0
40°-50°	573.9	18.3
50°-60°	473.4	15.1
60°-70°	315.2	10.1
70°-80°	141.1	4.5
80°-90°	25.2	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°	1009.7	32.2
0°-40°	1604.2	51.2
0°-60°	2651.4	84.6
0°-90°	3133.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3133.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1355	1355	1355	1355	1355	
5°	1353	1353	1348	1340	1336	128
15°	1275	1278	1275	1270	1261	360
25°	1133	1142	1147	1138	1128	519
35°	911	923	966	971	967	571
45°	705	717	741	774	779	544
55°	494	502	527	556	572	441
65°	289	297	315	337	357	287
75°	116	122	131	137	145	127
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°	1354.9	1354.9	1354.9	1354.9	1354.9
2.5°	1358.6	1359.1	1356.0	1347.7	1342.4
5°	1353.4	1352.9	1347.7	1340.4	1336.2
7.5°	1338.3	1339.3	1337.8	1327.4	1321.6
10°	1323.7	1324.2	1320.1	1311.7	1305.0
12.5°	1305.0	1304.5	1298.7	1294.6	1283.6
15°	1275.3	1278.4	1275.3	1269.6	1260.7
17.5°	1246.7	1246.7	1248.8	1238.9	1232.1
20°	1214.4	1216.0	1216.0	1208.2	1200.3
22.5°	1176.9	1181.6	1183.2	1174.8	1165.5
25°	1132.7	1141.5	1146.7	1138.4	1128.5
27.5°	1079.1	1092.6	1108.2	1102.0	1091.0
30°	1019.2	1039.0	1065.0	1059.8	1052.0
32.5°	962.5	982.2	1018.2	1016.1	1011.9
35°	910.9	923.4	965.6	970.8	967.1
37.5°	862.0	873.5	913.0	925.0	921.9
40°	810.5	823.0	854.2	875.5	876.6
42.5°	759.5	771.4	796.9	827.6	827.6
45°	705.3	717.3	740.7	774.5	778.7
47.5°	652.2	664.7	687.6	721.5	728.2
50°	600.2	611.6	634.5	667.3	677.7
52.5°	546.0	558.5	580.9	611.1	626.2
55°	494.0	502.3	526.8	555.9	572.1
57.5°	439.8	447.7	475.2	500.2	516.9
60°	387.8	397.7	419.0	444.5	463.8
62.5°	337.8	348.2	366.5	388.8	410.7
65°	289.4	297.2	314.9	337.3	356.6
67.5°	242.6	249.3	267.0	282.6	302.9
70°	195.2	204.0	217.1	232.2	245.2
72.5°	157.2	160.8	171.8	182.7	196.2
75°	116.1	122.3	131.2	137.4	145.2
77.5°	83.3	86.9	92.1	97.3	104.6
80°	55.7	57.3	61.9	63.0	68.7
82.5°	33.8	34.9	35.9	36.4	38.5
85°	18.2	18.2	18.2	17.2	17.2
87.5°	10.4	10.4	8.8	7.3	5.2
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)