

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: P554608

Luminaire Tested: **FUSL-12-2-LD4-2HI-30-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: P554608
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-80-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

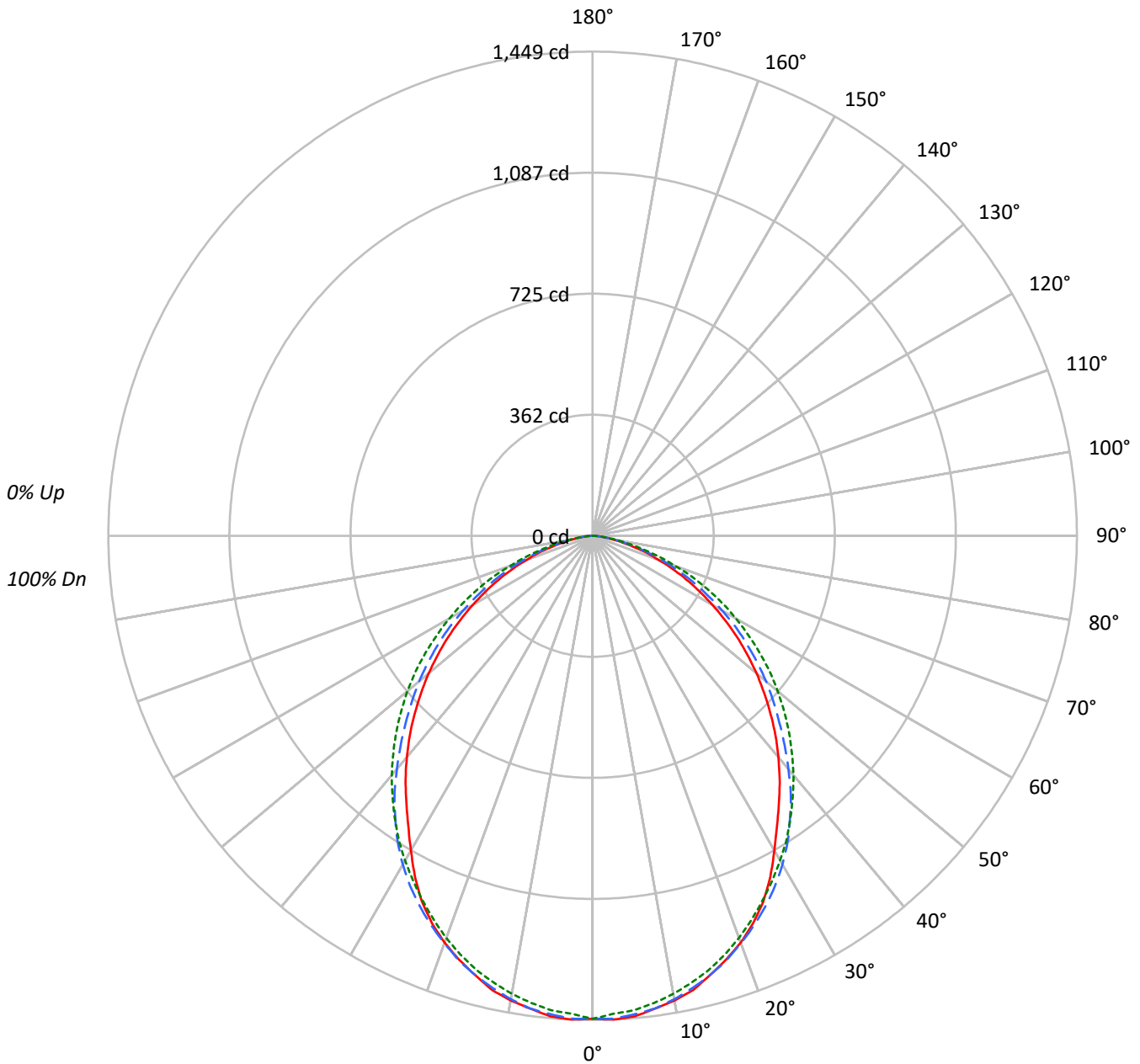
Lumens per Lamp: N/A
Luminaire Lumens: 3342.0 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	7779	7779	7779
5°	7800	7767	7700
10°	7717	7695	7607
15°	7580	7580	7493
20°	7419	7429	7333
25°	7175	7264	7149
30°	6756	7060	6974
35°	6384	6767	6778
40°	6074	6402	6569
45°	5727	6014	6323
50°	5360	5668	6053
55°	4944	5272	5726
60°	4453	4811	5325
65°	3931	4278	4843
70°	3276	3643	4115
75°	2574	2909	3221
80°	1841	2049	2272
85°	1198	1198	1130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.1	4.1
10°-20°	382.3	11.4
20°-30°	558.7	16.7
30°-40°	634.1	19.0
40°-50°	612.2	18.3
50°-60°	505.0	15.1
60°-70°	336.3	10.1
70°-80°	150.5	4.5
80°-90°	26.9	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°	1077.0	32.2
0°-40°	1711.2	51.2
0°-60°	2828.3	84.6
0°-90°	3342.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3342.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1445	1445	1445	1445	1445	
5°	1444	1443	1438	1430	1425	137
15°	1360	1364	1360	1354	1345	383
25°	1208	1218	1223	1214	1204	553
35°	972	985	1030	1036	1032	609
45°	752	765	790	826	831	580
55°	527	536	562	593	610	470
65°	309	317	336	360	380	306
75°	124	130	140	147	155	135
85°	19	19	19	18	18	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1445.3	1445.3	1445.3	1445.3	1445.3
2.5°	1449.2	1449.8	1446.4	1437.6	1432.0
5°	1443.7	1443.1	1437.6	1429.8	1425.3
7.5°	1427.6	1428.7	1427.0	1415.9	1409.8
10°	1412.0	1412.6	1408.1	1399.2	1392.0
12.5°	1392.0	1391.5	1385.4	1380.9	1369.3
15°	1360.4	1363.7	1360.4	1354.3	1344.8
17.5°	1329.8	1329.8	1332.1	1321.5	1314.3
20°	1295.4	1297.1	1297.1	1288.7	1280.4
22.5°	1255.4	1260.4	1262.1	1253.2	1243.2
25°	1208.2	1217.7	1223.2	1214.3	1203.8
27.5°	1151.0	1165.5	1182.1	1175.5	1163.8
30°	1087.2	1108.3	1136.1	1130.5	1122.2
32.5°	1026.7	1047.8	1086.1	1083.9	1079.4
35°	971.7	985.0	1030.0	1035.6	1031.7
37.5°	919.5	931.7	973.9	986.7	983.4
40°	864.5	877.9	911.2	933.9	935.0
42.5°	810.1	822.9	850.1	882.9	882.9
45°	752.4	765.1	790.1	826.2	830.7
47.5°	695.7	709.1	733.5	769.6	776.8
50°	640.2	652.4	676.9	711.8	722.9
52.5°	582.5	595.8	619.7	651.9	668.0
55°	526.9	535.8	561.9	593.0	610.2
57.5°	469.2	477.5	506.9	533.6	551.4
60°	413.7	424.2	447.0	474.2	494.7
62.5°	360.4	371.5	390.9	414.8	438.1
65°	308.7	317.1	335.9	359.8	380.3
67.5°	258.7	266.0	284.8	301.5	323.2
70°	208.2	217.7	231.5	247.6	261.5
72.5°	167.7	171.6	183.2	194.9	209.3
75°	123.8	130.5	139.9	146.6	154.9
77.5°	88.8	92.7	98.3	103.8	111.6
80°	59.4	61.1	66.1	67.2	73.3
82.5°	36.1	37.2	38.3	38.9	41.1
85°	19.4	19.4	19.4	18.3	18.3
87.5°	11.1	11.1	9.4	7.8	5.6
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)