

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: P554640

Luminaire Tested: **FUSL-12-2-LD4-2HI-30-UNV-82-84-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: P554640
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-82-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC 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

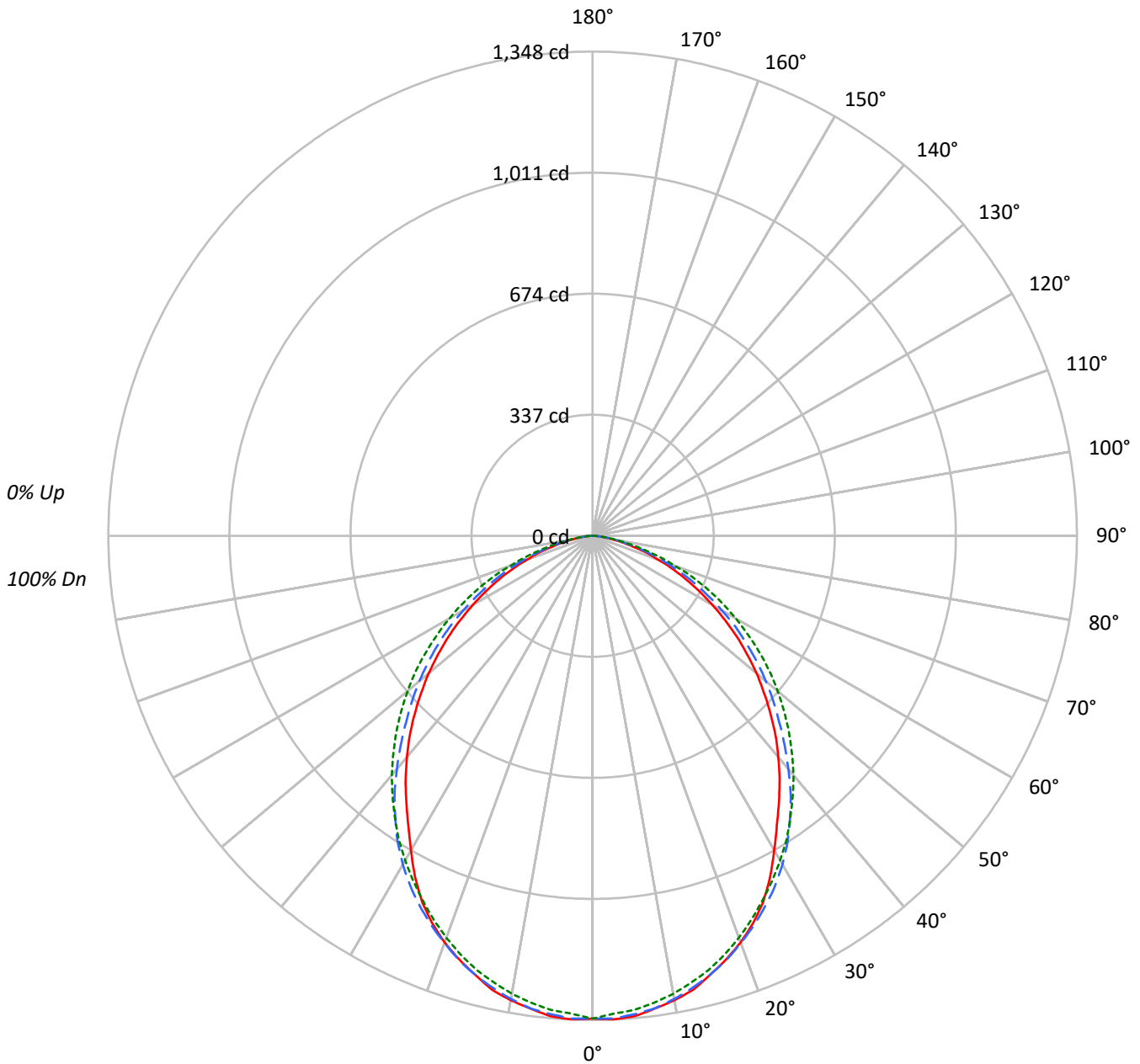
Lumens per Lamp: N/A
Luminaire Lumens: 3108.0 lumens
Efficiency: N/A
Efficacy: 71.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	7234	7234	7234
5°	7253	7223	7161
10°	7176	7156	7075
15°	7049	7049	6969
20°	6900	6909	6820
25°	6672	6755	6648
30°	6284	6566	6486
35°	5937	6294	6303
40°	5649	5954	6110
45°	5326	5593	5880
50°	4985	5271	5629
55°	4598	4904	5325
60°	4141	4475	4952
65°	3656	3978	4504
70°	3046	3388	3827
75°	2396	2705	2996
80°	1714	1903	2114
85°	1118	1118	1050



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.6	4.1
10°-20°	355.5	11.4
20°-30°	519.5	16.7
30°-40°	589.7	19.0
40°-50°	569.3	18.3
50°-60°	469.6	15.1
60°-70°	312.7	10.1
70°-80°	139.9	4.5
80°-90°	25.0	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°	1001.6	32.2
0°-40°	1591.4	51.2
0°-60°	2630.3	84.6
0°-90°	3108.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3108.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1344	1344	1344	1344	1344	
5°	1343	1342	1337	1330	1326	127
15°	1265	1268	1265	1259	1251	357
25°	1124	1132	1138	1129	1120	515
35°	904	916	958	963	959	566
45°	700	712	735	768	772	540
55°	490	498	523	552	568	437
65°	287	295	312	335	354	285
75°	115	121	130	136	144	126
85°	18	18	18	17	17	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1344.1	1344.1	1344.1	1344.1	1344.1
2.5°	1347.7	1348.3	1345.2	1336.9	1331.7
5°	1342.6	1342.1	1336.9	1329.7	1325.5
7.5°	1327.6	1328.6	1327.1	1316.8	1311.1
10°	1313.1	1313.7	1309.5	1301.3	1294.6
12.5°	1294.6	1294.0	1288.4	1284.2	1273.4
15°	1265.1	1268.2	1265.1	1259.4	1250.7
17.5°	1236.7	1236.7	1238.8	1229.0	1222.3
20°	1204.7	1206.3	1206.3	1198.5	1190.8
22.5°	1167.5	1172.2	1173.7	1165.5	1156.2
25°	1123.6	1132.4	1137.6	1129.3	1119.5
27.5°	1070.4	1083.9	1099.4	1093.2	1082.3
30°	1011.1	1030.7	1056.5	1051.3	1043.6
32.5°	954.8	974.4	1010.0	1008.0	1003.8
35°	903.7	916.1	957.9	963.0	959.4
37.5°	855.1	866.5	905.7	917.6	914.5
40°	804.0	816.4	847.4	868.5	869.6
42.5°	753.4	765.3	790.6	821.0	821.0
45°	699.7	711.6	734.8	768.4	772.5
47.5°	647.0	659.4	682.1	715.7	722.4
50°	595.4	606.7	629.5	662.0	672.3
52.5°	541.7	554.1	576.3	606.2	621.2
55°	490.0	498.3	522.6	551.5	567.5
57.5°	436.3	444.1	471.5	496.2	512.8
60°	384.7	394.5	415.7	441.0	460.1
62.5°	335.1	345.5	363.5	385.7	407.4
65°	287.1	294.9	312.4	334.6	353.7
67.5°	240.6	247.3	264.9	280.4	300.5
70°	193.6	202.4	215.3	230.3	243.2
72.5°	155.9	159.6	170.4	181.2	194.7
75°	115.2	121.3	130.1	136.3	144.1
77.5°	82.6	86.2	91.4	96.6	103.8
80°	55.3	56.8	61.4	62.5	68.2
82.5°	33.6	34.6	35.6	36.1	38.2
85°	18.1	18.1	18.1	17.0	17.0
87.5°	10.3	10.3	8.8	7.2	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)