

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: P555808

Luminaire Tested: **FUSL-12-2-LD4-3LO-40-UNV-93-84-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: P555808
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-LD4-3LO-40-UNV-93-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

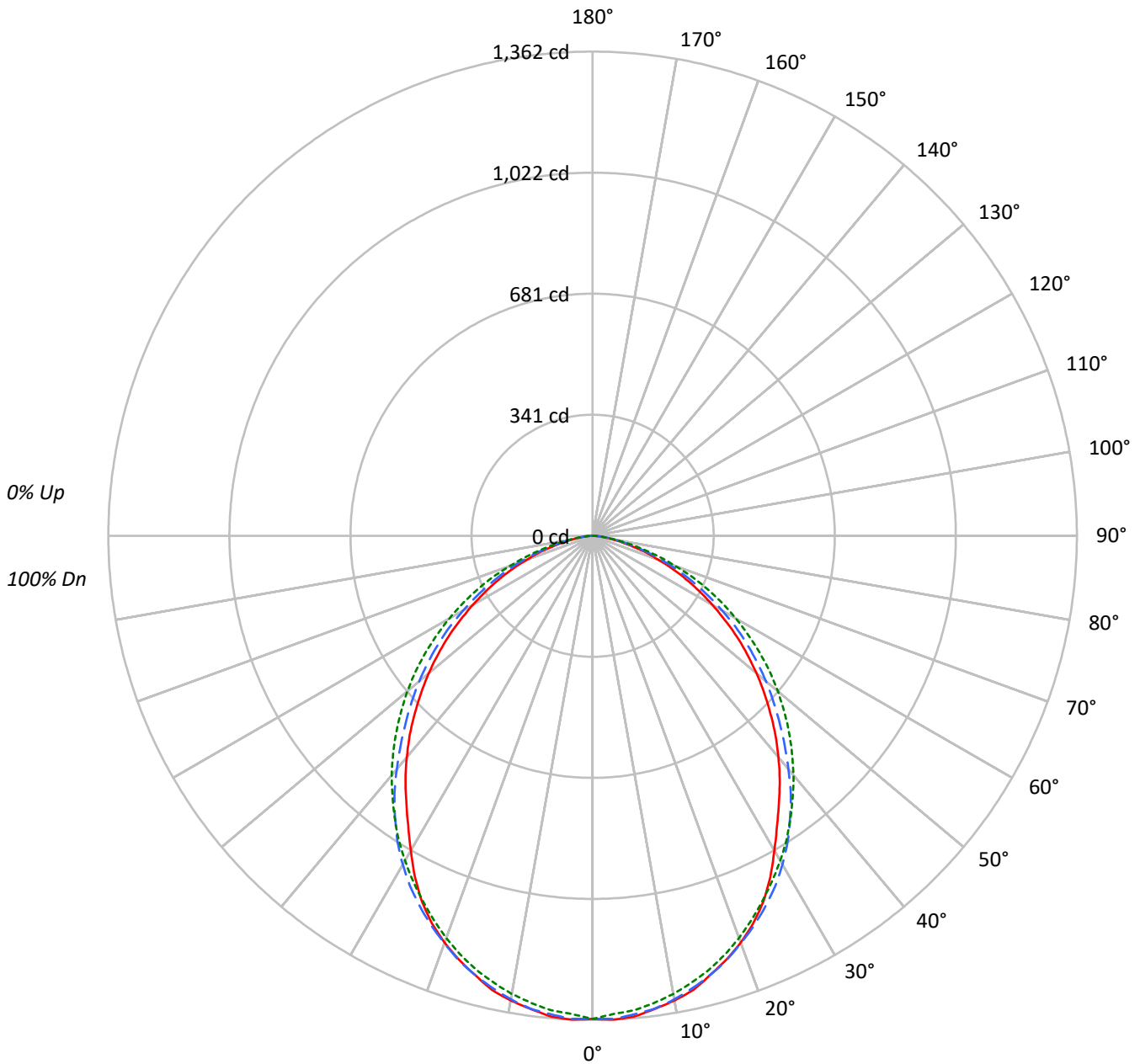
Lumens per Lamp: N/A
Luminaire Lumens: 3142.0 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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					20					
RC	80					70					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54					54			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47					47			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34					34			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7313	7313	7313
5°	7333	7302	7239
10°	7255	7235	7152
15°	7126	7126	7044
20°	6975	6985	6895
25°	6745	6829	6721
30°	6352	6638	6556
35°	6002	6363	6372
40°	5710	6018	6176
45°	5383	5654	5944
50°	5040	5328	5691
55°	4648	4957	5383
60°	4186	4523	5006
65°	3696	4022	4554
70°	3081	3426	3869
75°	2420	2737	3028
80°	1733	1925	2135
85°	1130	1130	1062



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.9	4.1
10°-20°	359.4	11.4
20°-30°	525.2	16.7
30°-40°	596.2	19.0
40°-50°	575.5	18.3
50°-60°	474.8	15.1
60°-70°	316.2	10.1
70°-80°	141.5	4.5
80°-90°	25.3	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°	1012.6	32.2
0°-40°	1608.8	51.2
0°-60°	2659.0	84.6
0°-90°	3142.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3142.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1359	1359	1359	1359	1359	
5°	1357	1357	1352	1344	1340	128
15°	1279	1282	1279	1273	1264	361
25°	1136	1145	1150	1142	1132	520
35°	914	926	968	974	970	572
45°	707	719	743	777	781	546
55°	495	504	528	558	574	442
65°	290	298	316	338	358	288
75°	116	123	132	138	146	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°	1358.8	1358.8	1358.8	1358.8	1358.8
2.5°	1362.5	1363.0	1359.9	1351.5	1346.3
5°	1357.3	1356.7	1351.5	1344.2	1340.0
7.5°	1342.1	1343.2	1341.6	1331.2	1325.4
10°	1327.5	1328.0	1323.9	1315.5	1308.7
12.5°	1308.7	1308.2	1302.5	1298.3	1287.3
15°	1279.0	1282.1	1279.0	1273.2	1264.3
17.5°	1250.3	1250.3	1252.3	1242.4	1235.6
20°	1217.9	1219.5	1219.5	1211.6	1203.8
22.5°	1180.3	1185.0	1186.6	1178.2	1168.8
25°	1135.9	1144.8	1150.0	1141.7	1131.8
27.5°	1082.2	1095.7	1111.4	1105.1	1094.2
30°	1022.1	1042.0	1068.1	1062.8	1055.0
32.5°	965.2	985.1	1021.1	1019.0	1014.8
35°	913.5	926.1	968.4	973.6	969.9
37.5°	864.5	876.0	915.6	927.6	924.5
40°	812.8	825.3	856.6	878.0	879.1
42.5°	761.6	773.6	799.2	830.0	830.0
45°	707.3	719.4	742.8	776.8	781.0
47.5°	654.1	666.6	689.6	723.5	730.3
50°	601.9	613.4	636.3	669.2	679.7
52.5°	547.6	560.1	582.6	612.9	628.0
55°	495.4	503.8	528.3	557.5	573.7
57.5°	441.1	448.9	476.6	501.7	518.4
60°	388.9	398.8	420.2	445.8	465.1
62.5°	338.8	349.2	367.5	390.0	411.9
65°	290.2	298.1	315.8	338.3	357.6
67.5°	243.3	250.1	267.8	283.5	303.8
70°	195.8	204.6	217.7	232.8	245.9
72.5°	157.7	161.3	172.3	183.2	196.8
75°	116.4	122.7	131.6	137.8	145.6
77.5°	83.5	87.2	92.4	97.6	104.9
80°	55.9	57.4	62.1	63.2	68.9
82.5°	33.9	35.0	36.0	36.5	38.6
85°	18.3	18.3	18.3	17.2	17.2
87.5°	10.4	10.4	8.9	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)