

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: P555613

Luminaire Tested: **FUSL-12-2-LD4-3HI-50-UNV-82-96-EDD**

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: P555613
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-LD4-3HI-50-UNV-82-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

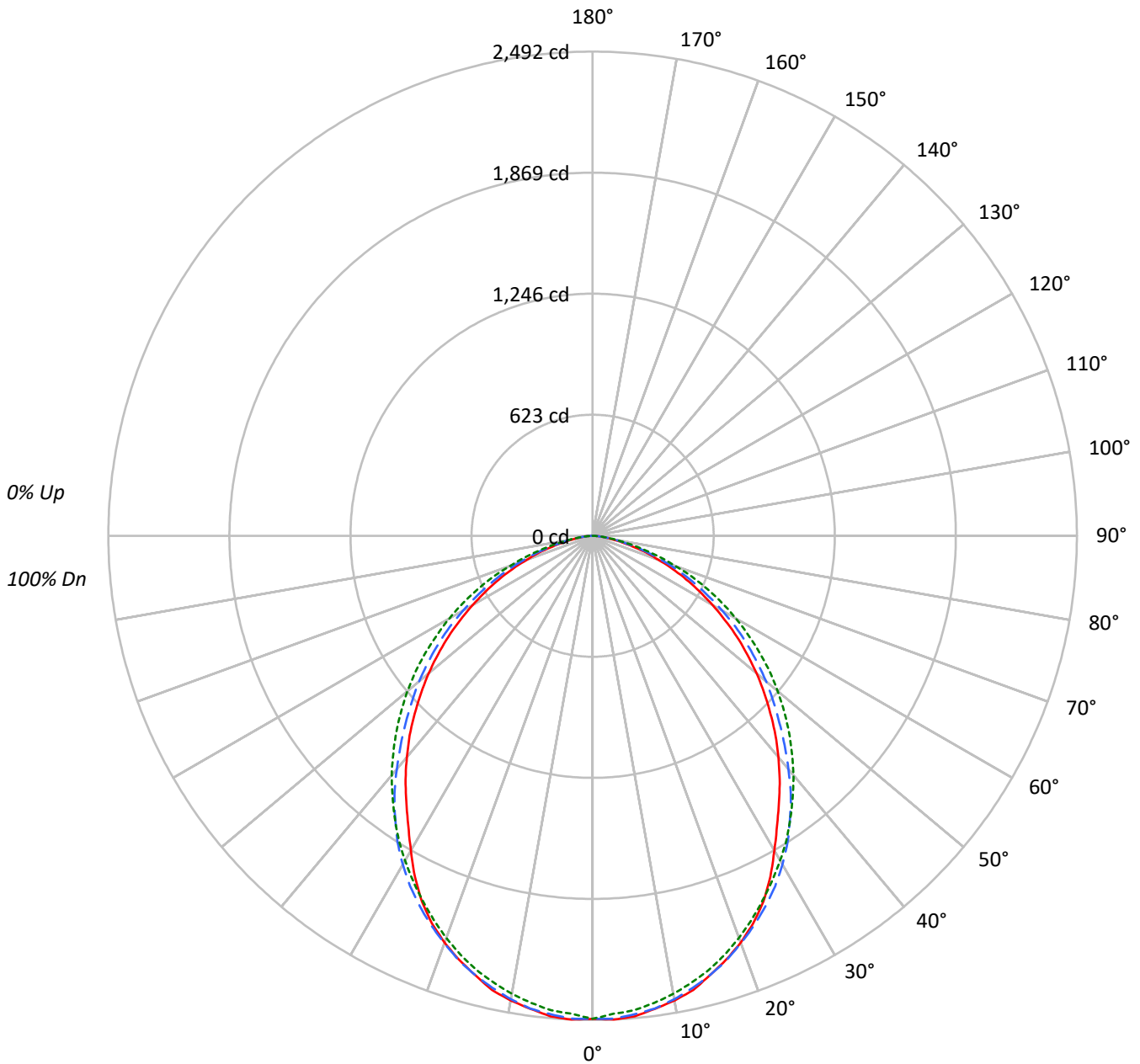
Lumens per Lamp: N/A
Luminaire Lumens: 5748.0 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
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									
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°	13379	13379	13379
5°	13414	13358	13244
10°	13272	13236	13084
15°	13036	13036	12888
20°	12761	12777	12613
25°	12340	12494	12295
30°	11621	12143	11995
35°	10980	11639	11658
40°	10446	11011	11299
45°	9849	10344	10874
50°	9219	9747	10411
55°	8504	9069	9848
60°	7659	8275	9159
65°	6762	7358	8331
70°	5635	6266	7078
75°	4429	5005	5540
80°	3168	3521	3908
85°	2062	2062	1945



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.0	4.1
10°-20°	657.5	11.4
20°-30°	960.8	16.7
30°-40°	1090.7	19.0
40°-50°	1052.9	18.3
50°-60°	868.6	15.1
60°-70°	578.4	10.1
70°-80°	258.8	4.5
80°-90°	46.3	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°	1852.4	32.2
0°-40°	2943.1	51.2
0°-60°	4864.5	84.6
0°-90°	5748.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5748.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2486	2486	2486	2486	2486	
5°	2483	2482	2472	2459	2452	235
15°	2340	2346	2340	2329	2313	660
25°	2078	2094	2104	2089	2070	952
35°	1671	1694	1772	1781	1774	1047
45°	1294	1316	1359	1421	1429	998
55°	906	922	966	1020	1050	809
65°	531	545	578	619	654	526
75°	213	224	241	252	266	233
85°	33	33	33	32	32	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2485.9	2485.9	2485.9	2485.9	2485.9
2.5°	2492.5	2493.5	2487.8	2472.5	2462.9
5°	2483.0	2482.0	2472.5	2459.1	2451.5
7.5°	2455.3	2457.2	2454.3	2435.2	2424.7
10°	2428.6	2429.5	2421.9	2406.6	2394.2
12.5°	2394.2	2393.2	2382.7	2375.1	2355.0
15°	2339.7	2345.5	2339.7	2329.2	2313.0
17.5°	2287.2	2287.2	2291.0	2272.9	2260.5
20°	2228.0	2230.9	2230.9	2216.6	2202.2
22.5°	2159.3	2167.8	2170.7	2155.4	2138.2
25°	2078.1	2094.3	2103.9	2088.6	2070.4
27.5°	1979.7	2004.5	2033.2	2021.7	2001.7
30°	1869.9	1906.2	1953.9	1944.4	1930.1
32.5°	1765.8	1802.1	1868.0	1864.2	1856.5
35°	1671.2	1694.2	1771.5	1781.1	1774.4
37.5°	1581.5	1602.5	1675.1	1697.0	1691.3
40°	1486.9	1509.9	1567.2	1606.3	1608.2
42.5°	1393.3	1415.3	1462.1	1518.4	1518.4
45°	1294.0	1316.0	1359.0	1421.0	1428.7
47.5°	1196.6	1219.5	1261.6	1323.6	1336.0
50°	1101.1	1122.1	1164.1	1224.3	1243.4
52.5°	1001.8	1024.7	1065.8	1121.2	1148.9
55°	906.3	921.6	966.5	1019.9	1049.5
57.5°	807.0	821.3	871.9	917.8	948.3
60°	711.5	729.6	768.8	815.6	850.9
62.5°	619.8	638.9	672.3	713.4	753.5
65°	531.0	545.3	577.8	618.8	654.2
67.5°	445.0	457.4	489.9	518.6	555.8
70°	358.1	374.4	398.2	425.9	449.8
72.5°	288.4	295.1	315.1	335.2	360.0
75°	213.0	224.4	240.7	252.1	266.4
77.5°	152.8	159.5	169.0	178.6	192.0
80°	102.2	105.0	113.6	115.6	126.1
82.5°	62.1	64.0	65.9	66.8	70.7
85°	33.4	33.4	33.4	31.5	31.5
87.5°	19.1	19.1	16.2	13.4	9.5
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)