

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: P735703

Luminaire Tested: **24APR-49-B2750-W2D-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735703
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P708973)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24APR-49-B2750-W2D-2700K
Description: 2X4 4900 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 2700K CCT

Light Source: -
Ballast/Driver: -

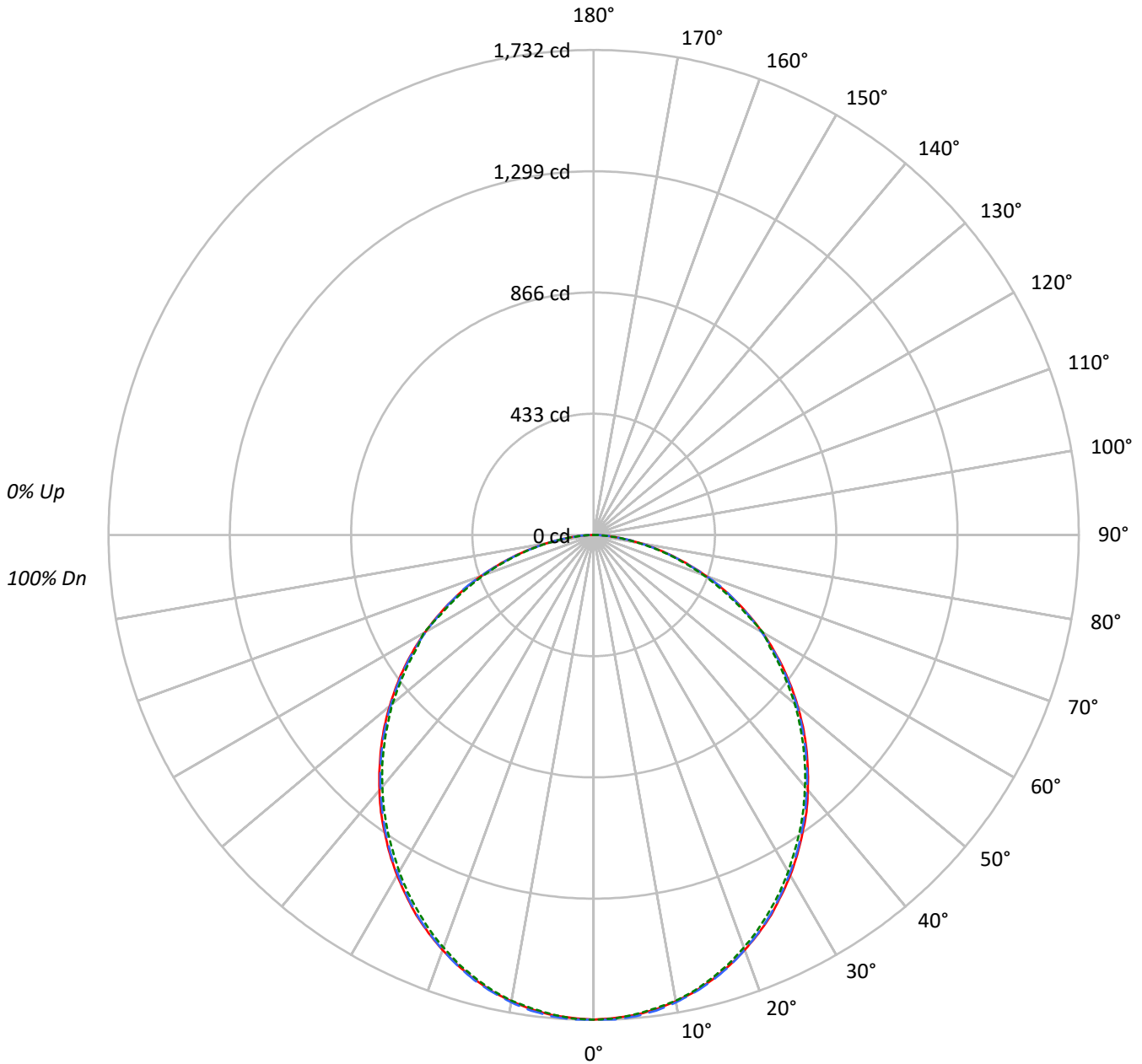
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4611.0 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84																			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70																			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59																			
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51																			
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44																			
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39																			
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34																			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30																			
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27																			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2329	2329	2329
5°	2324	2331	2321
10°	2311	2316	2308
15°	2289	2293	2281
20°	2259	2258	2245
25°	2224	2220	2202
30°	2181	2173	2157
35°	2135	2128	2110
40°	2090	2079	2061
45°	2042	2031	2011
50°	1989	1981	1962
55°	1935	1925	1900
60°	1870	1858	1884
65°	1785	1780	1746
70°	1675	1677	1631
75°	1521	1509	1474
80°	1306	1289	1255
85°	999	990	914



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.5	3.5
10°-20°	463.2	10.0
20°-30°	687.5	14.9
30°-40°	809.3	17.6
40°-50°	822.4	17.8
50°-60°	731.1	15.9
60°-70°	551.5	12.0
70°-80°	306.3	6.6
80°-90°	76.2	1.7
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°	1314.2	28.5
0°-40°	2123.5	46.1
0°-60°	3677.0	79.7
0°-90°	4611.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4611.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1731	1731	1731	1731	1731	
5°	1721	1723	1726	1723	1718	163
15°	1643	1645	1646	1642	1637	463
25°	1498	1497	1495	1488	1484	690
35°	1300	1300	1295	1288	1285	814
45°	1073	1073	1068	1059	1057	828
55°	825	819	820	812	810	737
65°	561	557	559	552	548	555
75°	292	289	290	288	284	310
85°	65	63	64	61	59	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1731.2	1731.2	1731.2	1731.2	1731.2
2.5°	1726.8	1730.0	1732.2	1729.6	1729.0
5°	1720.7	1723.4	1725.6	1722.9	1718.5
7.5°	1708.5	1711.8	1713.5	1710.7	1704.6
10°	1691.3	1694.7	1695.2	1692.5	1689.1
12.5°	1670.4	1672.6	1672.6	1670.4	1666.5
15°	1643.2	1645.0	1646.0	1642.2	1637.2
17.5°	1612.3	1615.0	1614.0	1607.9	1605.7
20°	1577.5	1579.7	1576.9	1573.1	1568.1
22.5°	1539.3	1539.9	1537.7	1533.2	1528.2
25°	1498.4	1497.3	1495.1	1488.5	1483.5
27.5°	1450.9	1453.1	1447.5	1441.4	1438.2
30°	1403.9	1404.4	1398.9	1391.1	1388.4
32.5°	1353.6	1352.4	1348.6	1340.3	1335.9
35°	1299.9	1300.4	1295.4	1287.7	1284.9
37.5°	1247.9	1244.6	1240.8	1231.9	1230.2
40°	1189.9	1189.3	1183.8	1176.0	1173.3
42.5°	1131.8	1131.3	1126.8	1119.1	1116.9
45°	1073.2	1073.2	1067.6	1058.8	1056.6
47.5°	1013.5	1011.2	1007.4	999.7	996.9
50°	950.4	948.8	946.6	937.7	937.1
52.5°	888.5	887.4	883.5	875.8	871.4
55°	824.9	818.9	820.5	811.7	810.0
57.5°	759.7	753.6	756.9	749.2	745.9
60°	695.0	689.0	690.6	685.6	700.0
62.5°	628.7	624.8	624.8	636.4	615.4
65°	560.7	557.3	559.0	551.8	548.4
67.5°	493.8	488.8	499.3	486.0	480.5
70°	425.7	422.4	426.3	418.5	414.7
72.5°	358.3	355.5	354.4	351.6	348.4
75°	292.5	288.6	290.2	288.0	283.6
77.5°	228.4	227.2	226.7	223.9	220.6
80°	168.6	167.5	166.4	164.2	162.0
82.5°	112.8	111.7	111.2	110.0	109.5
85°	64.7	63.0	64.1	61.4	59.2
87.5°	24.3	23.8	24.9	22.7	21.0
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)