

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: P735704

Luminaire Tested: **24APR-49-B2750-W2D-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735704
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-3000K
Description: 2X4 4900 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 3000K CCT

Light Source: -
Ballast/Driver: -

Summary

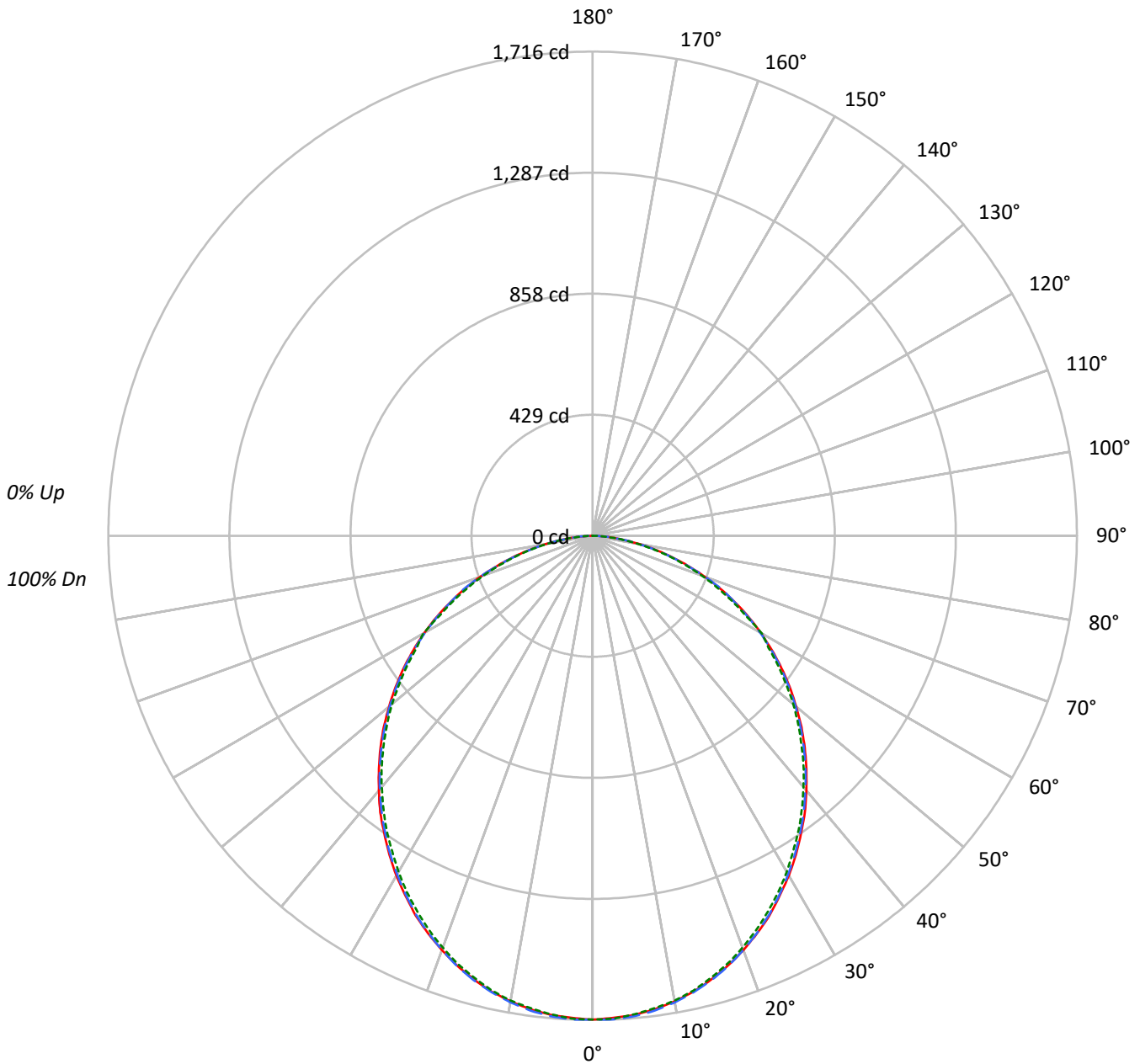
Lumens per Lamp: N/A
Luminaire Lumens: 4567.0 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P735704

CATALOG NUMBER: 24APR-49-B2750-W2D-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P735704

CATALOG NUMBER: 24APR-49-B2750-W2D-3000K

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°	2307	2307	2307
5°	2302	2308	2299
10°	2289	2294	2286
15°	2267	2271	2259
20°	2237	2236	2224
25°	2203	2199	2181
30°	2160	2153	2136
35°	2115	2108	2090
40°	2070	2059	2041
45°	2023	2012	1991
50°	1971	1962	1943
55°	1917	1906	1882
60°	1852	1841	1866
65°	1768	1763	1729
70°	1659	1661	1616
75°	1506	1495	1460
80°	1294	1277	1243
85°	990	980	905



TEST NUMBER: P735704

CATALOG NUMBER: 24APR-49-B2750-W2D-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.9	3.5
10°-20°	458.8	10.0
20°-30°	681.0	14.9
30°-40°	801.5	17.6
40°-50°	814.6	17.8
50°-60°	724.1	15.9
60°-70°	546.2	12.0
70°-80°	303.4	6.6
80°-90°	75.4	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°	1301.7	28.5
0°-40°	2103.2	46.1
0°-60°	3642.0	79.7
0°-90°	4567.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4567.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1715	1715	1715	1715	1715	
5°	1704	1707	1709	1706	1702	162
15°	1628	1629	1630	1626	1622	459
25°	1484	1483	1481	1474	1469	683
35°	1288	1288	1283	1275	1273	806
45°	1063	1063	1058	1049	1046	820
55°	817	811	813	804	802	730
65°	555	552	554	547	543	550
75°	290	286	288	285	281	307
85°	64	62	64	61	59	77
90°	0	0	0	0	0	



TEST NUMBER: P735704

CATALOG NUMBER: 24APR-49-B2750-W2D-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1714.7	1714.7	1714.7	1714.7	1714.7
2.5°	1710.3	1713.5	1715.7	1713.0	1712.5
5°	1704.3	1706.9	1709.1	1706.5	1702.1
7.5°	1692.2	1695.5	1697.1	1694.4	1688.4
10°	1675.2	1678.5	1679.0	1676.4	1673.0
12.5°	1654.4	1656.6	1656.6	1654.4	1650.6
15°	1627.5	1629.3	1630.3	1626.5	1621.5
17.5°	1597.0	1599.6	1598.6	1592.6	1590.4
20°	1562.4	1564.6	1561.9	1558.1	1553.1
22.5°	1524.6	1525.2	1523.0	1518.6	1513.6
25°	1484.1	1483.0	1480.9	1474.3	1469.3
27.5°	1437.0	1439.2	1433.7	1427.7	1424.4
30°	1390.5	1391.0	1385.5	1377.8	1375.1
32.5°	1340.6	1339.5	1335.7	1327.5	1323.1
35°	1287.5	1288.0	1283.1	1275.4	1272.7
37.5°	1236.0	1232.7	1228.9	1220.2	1218.4
40°	1178.5	1177.9	1172.5	1164.8	1162.1
42.5°	1121.0	1120.5	1116.1	1108.4	1106.3
45°	1063.0	1063.0	1057.5	1048.7	1046.5
47.5°	1003.8	1001.6	997.8	990.2	987.4
50°	941.4	939.7	937.5	928.8	928.2
52.5°	880.1	878.9	875.1	867.5	863.1
55°	817.1	811.1	812.7	803.9	802.3
57.5°	752.4	746.4	749.7	742.0	738.8
60°	688.4	682.4	684.0	679.0	693.3
62.5°	622.7	618.8	618.8	630.3	609.6
65°	555.3	552.0	553.7	546.6	543.2
67.5°	489.1	484.1	494.5	481.4	475.9
70°	421.7	418.3	422.3	414.5	410.7
72.5°	354.9	352.1	351.1	348.3	345.1
75°	289.7	285.9	287.5	285.3	280.9
77.5°	226.2	225.0	224.6	221.8	218.5
80°	167.0	165.9	164.8	162.6	160.4
82.5°	111.7	110.7	110.1	108.9	108.5
85°	64.1	62.4	63.5	60.8	58.6
87.5°	24.1	23.5	24.7	22.5	20.8
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)