

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: P735732

Luminaire Tested: **24APR-58-B2750-W2D-CP250-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735732
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-58-B2750-W2D-CP250-5000K
Description: 2X4 5800 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 5000K CCT, AND CP250 LENS

Light Source: -
Ballast/Driver: -

Summary

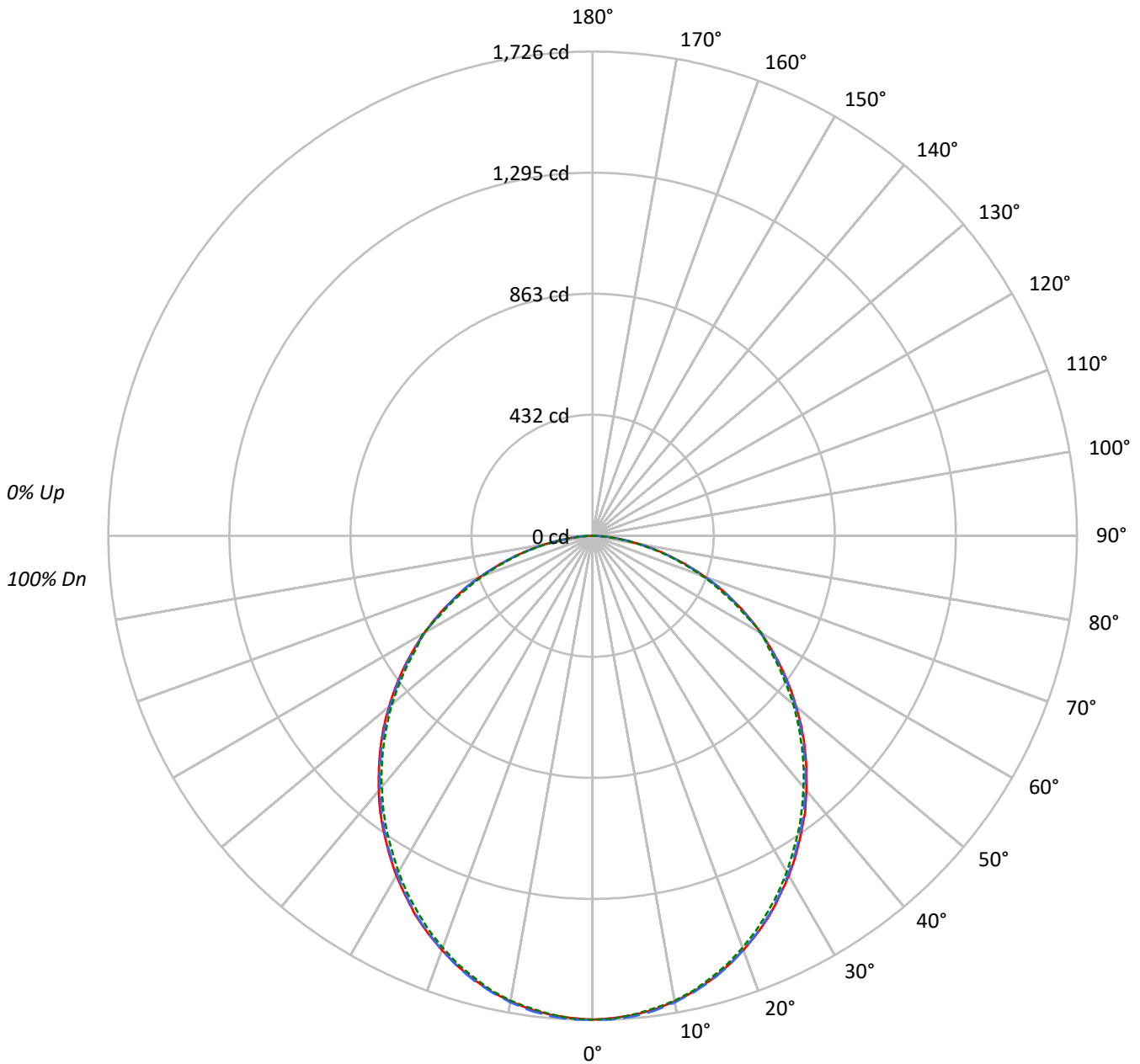
Lumens per Lamp: N/A
Luminaire Lumens: 4594.0 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 57
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: P735732

CATALOG NUMBER: 24APR-58-B2750-W2D-CP250-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P735732

CATALOG NUMBER: 24APR-58-B2750-W2D-CP250-5000K

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°	2321	2321	2321
5°	2316	2322	2313
10°	2302	2307	2299
15°	2281	2284	2272
20°	2250	2250	2237
25°	2216	2211	2194
30°	2173	2165	2149
35°	2127	2120	2103
40°	2082	2072	2053
45°	2035	2024	2003
50°	1982	1974	1954
55°	1928	1918	1893
60°	1864	1851	1877
65°	1778	1773	1740
70°	1669	1671	1626
75°	1515	1503	1469
80°	1302	1285	1251
85°	994	986	911



TEST NUMBER: P735732

CATALOG NUMBER: 24APR-58-B2750-W2D-CP250-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.9	3.5
10°-20°	461.5	10.0
20°-30°	685.0	14.9
30°-40°	806.3	17.6
40°-50°	819.4	17.8
50°-60°	728.4	15.9
60°-70°	549.5	12.0
70°-80°	305.2	6.6
80°-90°	75.9	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°	1309.4	28.5
0°-40°	2115.7	46.1
0°-60°	3663.5	79.7
0°-90°	4594.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4594.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1725	1725	1725	1725	1725	
5°	1714	1717	1719	1717	1712	163
15°	1637	1639	1640	1636	1631	462
25°	1493	1492	1490	1483	1478	687
35°	1295	1296	1291	1283	1280	811
45°	1069	1069	1064	1055	1053	825
55°	822	816	818	809	807	734
65°	559	555	557	550	546	553
75°	291	288	289	287	283	309
85°	64	63	64	61	59	78
90°	0	0	0	0	0	



TEST NUMBER: P735732

CATALOG NUMBER: 24APR-58-B2750-W2D-CP250-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1724.8	1724.8	1724.8	1724.8	1724.8
2.5°	1720.4	1723.7	1725.9	1723.2	1722.6
5°	1714.4	1717.0	1719.2	1716.6	1712.2
7.5°	1702.2	1705.5	1707.2	1704.4	1698.3
10°	1685.1	1688.5	1688.9	1686.3	1682.9
12.5°	1664.2	1666.4	1666.4	1664.2	1660.4
15°	1637.2	1638.9	1640.0	1636.1	1631.1
17.5°	1606.4	1609.1	1608.0	1602.0	1599.8
20°	1571.7	1573.9	1571.1	1567.3	1562.3
22.5°	1533.6	1534.2	1532.0	1527.6	1522.6
25°	1492.9	1491.8	1489.6	1483.0	1478.0
27.5°	1445.5	1447.7	1442.1	1436.1	1432.8
30°	1398.7	1399.2	1393.7	1386.0	1383.3
32.5°	1348.6	1347.4	1343.6	1335.3	1330.9
35°	1295.1	1295.6	1290.7	1283.0	1280.2
37.5°	1243.3	1240.0	1236.2	1227.4	1225.6
40°	1185.5	1184.9	1179.4	1171.7	1169.0
42.5°	1127.7	1127.1	1122.7	1115.0	1112.8
45°	1069.3	1069.3	1063.7	1054.9	1052.7
47.5°	1009.7	1007.5	1003.7	996.0	993.2
50°	946.9	945.3	943.1	934.3	933.7
52.5°	885.3	884.1	880.3	872.6	868.2
55°	821.9	815.9	817.5	808.7	807.0
57.5°	756.9	750.8	754.1	746.4	743.2
60°	692.5	686.4	688.0	683.1	697.4
62.5°	626.4	622.5	622.5	634.1	613.2
65°	558.6	555.2	557.0	549.8	546.4
67.5°	492.0	487.0	497.4	484.2	478.7
70°	424.2	420.8	424.8	417.0	413.2
72.5°	357.0	354.2	353.1	350.3	347.1
75°	291.4	287.5	289.2	287.0	282.6
77.5°	227.5	226.4	225.9	223.1	219.8
80°	168.0	166.9	165.8	163.6	161.4
82.5°	112.4	111.3	110.7	109.6	109.1
85°	64.4	62.8	63.9	61.2	59.0
87.5°	24.3	23.7	24.8	22.6	20.9
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)