

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: P735705

Luminaire Tested: **24APR-49-B2750-W2D-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P735705  
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-3500K  
Description: 2X4 4900 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 3500K CCT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

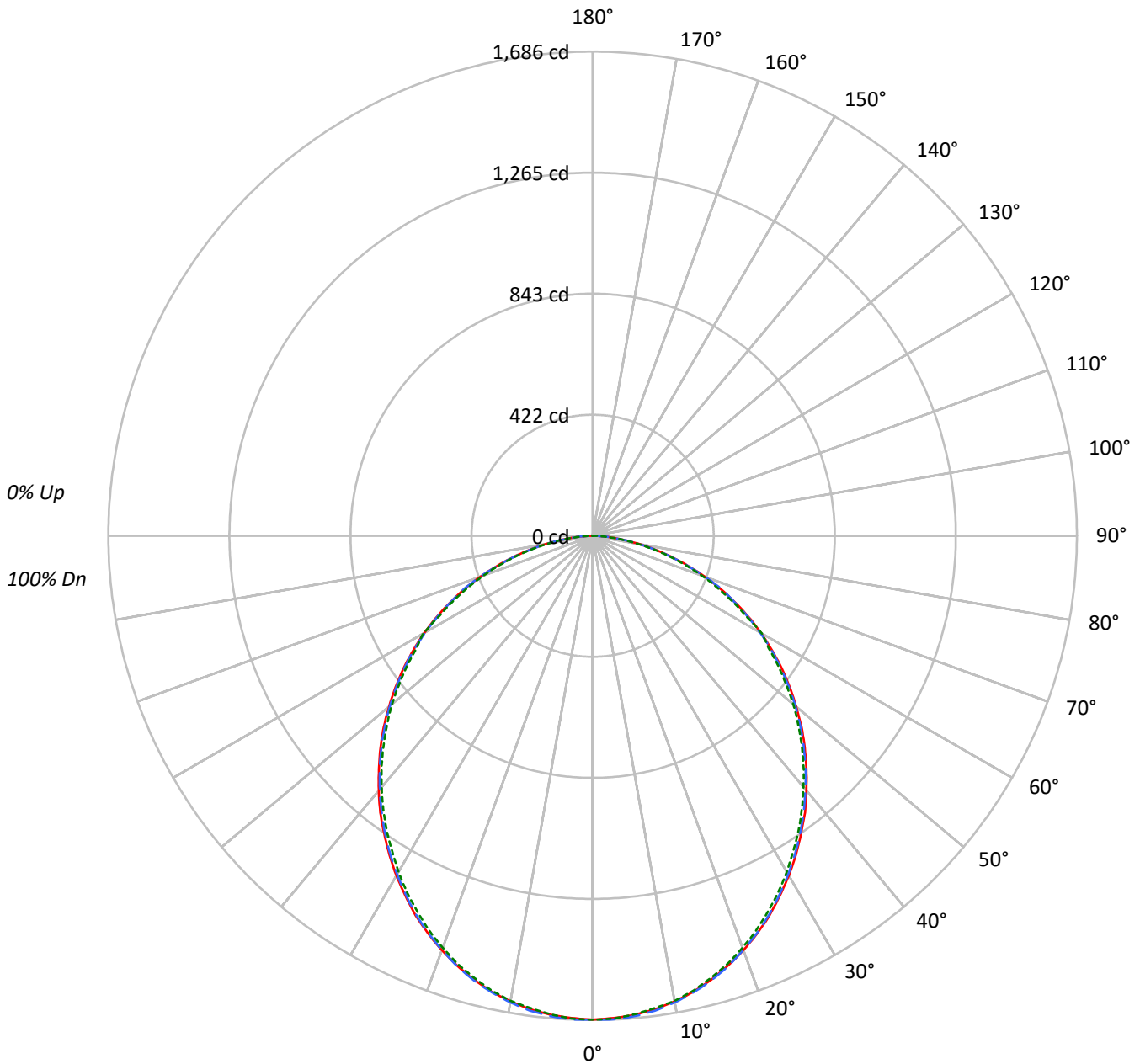
Lumens per Lamp: N/A  
Luminaire Lumens: 4488.0 lumens  
Efficiency: N/A  
Efficacy: 95.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 47  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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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CATALOG NUMBER: 24APR-49-B2750-W2D-3500K

### 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	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°	2267	2267	2267
5°	2262	2269	2259
10°	2249	2254	2246
15°	2228	2232	2220
20°	2198	2198	2185
25°	2165	2160	2144
30°	2123	2115	2100
35°	2078	2071	2054
40°	2034	2024	2006
45°	1988	1977	1957
50°	1936	1928	1909
55°	1883	1873	1849
60°	1820	1809	1833
65°	1737	1732	1699
70°	1630	1633	1588
75°	1480	1469	1435
80°	1272	1255	1221
85°	971	963	889



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.1	3.5
10°-20°	450.8	10.0
20°-30°	669.2	14.9
30°-40°	787.7	17.6
40°-50°	800.5	17.8
50°-60°	711.6	15.9
60°-70°	536.8	12.0
70°-80°	298.2	6.6
80°-90°	74.1	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°	1279.2	28.5
0°-40°	2066.9	46.1
0°-60°	3579.0	79.7
0°-90°	4488.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4488.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1685	1685	1685	1685	1685	
5°	1675	1677	1680	1677	1673	159
15°	1599	1601	1602	1598	1594	451
25°	1458	1457	1455	1449	1444	671
35°	1265	1266	1261	1253	1251	792
45°	1045	1045	1039	1030	1028	806
55°	803	797	799	790	788	717
65°	546	542	544	537	534	540
75°	285	281	282	280	276	302
85°	63	61	62	60	58	76
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1685.0	1685.0	1685.0	1685.0	1685.0
2.5°	1680.7	1683.9	1686.0	1683.4	1682.9
5°	1674.8	1677.4	1679.6	1677.0	1672.6
7.5°	1662.9	1666.2	1667.8	1665.1	1659.2
10°	1646.2	1649.5	1650.0	1647.4	1644.1
12.5°	1625.8	1628.0	1628.0	1625.8	1622.1
15°	1599.4	1601.1	1602.1	1598.4	1593.5
17.5°	1569.3	1572.0	1570.9	1565.0	1562.9
20°	1535.4	1537.6	1534.9	1531.1	1526.2
22.5°	1498.2	1498.8	1496.6	1492.3	1487.5
25°	1458.4	1457.4	1455.2	1448.8	1443.9
27.5°	1412.2	1414.3	1408.9	1403.0	1399.8
30°	1366.4	1366.9	1361.6	1354.0	1351.4
32.5°	1317.5	1316.3	1312.6	1304.5	1300.2
35°	1265.2	1265.7	1260.9	1253.4	1250.7
37.5°	1214.6	1211.4	1207.7	1199.1	1197.4
40°	1158.1	1157.6	1152.2	1144.6	1142.0
42.5°	1101.6	1101.1	1096.8	1089.3	1087.1
45°	1044.6	1044.6	1039.2	1030.5	1028.4
47.5°	986.4	984.3	980.5	973.0	970.3
50°	925.1	923.5	921.3	912.7	912.1
52.5°	864.8	863.7	860.0	852.5	848.2
55°	802.9	797.0	798.6	790.0	788.4
57.5°	739.4	733.5	736.7	729.2	726.0
60°	676.5	670.6	672.2	667.3	681.3
62.5°	611.9	608.1	608.1	619.4	599.0
65°	545.7	542.4	544.1	537.1	533.8
67.5°	480.6	475.7	486.0	473.0	467.7
70°	414.4	411.1	415.0	407.4	403.6
72.5°	348.7	346.0	345.0	342.3	339.1
75°	284.7	280.9	282.5	280.4	276.0
77.5°	222.3	221.2	220.7	218.0	214.7
80°	164.1	163.1	162.0	159.8	157.6
82.5°	109.8	108.7	108.2	107.1	106.6
85°	62.9	61.4	62.4	59.8	57.6
87.5°	23.7	23.1	24.3	22.1	20.4
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)