

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: P735730

Luminaire Tested: **24APR-58-B2750-W2D-CP250-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735730
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-CP250-3500K
Description: 2X4 5800 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 3500K CCT, AND CP250 LENS

Light Source: -
Ballast/Driver: -

Summary

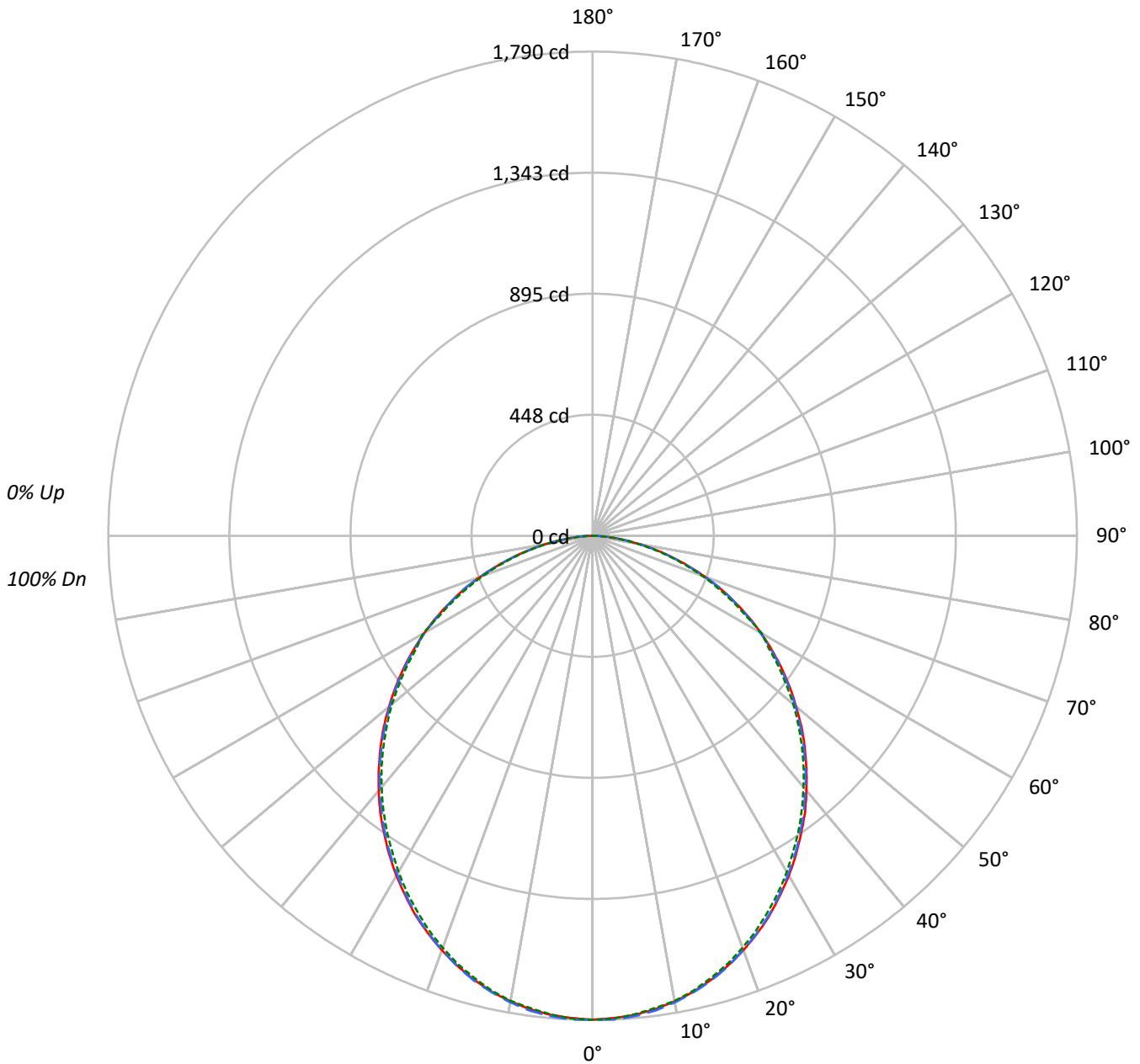
Lumens per Lamp: N/A
Luminaire Lumens: 4765.0 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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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°	2407	2407	2407
5°	2402	2408	2399
10°	2388	2393	2385
15°	2365	2369	2357
20°	2334	2333	2320
25°	2299	2294	2276
30°	2254	2246	2229
35°	2206	2199	2181
40°	2160	2149	2130
45°	2110	2099	2078
50°	2056	2048	2027
55°	2000	1989	1964
60°	1933	1921	1947
65°	1845	1839	1805
70°	1731	1733	1686
75°	1571	1559	1524
80°	1350	1332	1297
85°	1031	1022	945



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.0	3.5
10°-20°	478.7	10.0
20°-30°	710.5	14.9
30°-40°	836.3	17.6
40°-50°	849.9	17.8
50°-60°	755.5	15.9
60°-70°	569.9	12.0
70°-80°	316.5	6.6
80°-90°	78.7	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°	1358.1	28.5
0°-40°	2194.4	46.1
0°-60°	3799.9	79.7
0°-90°	4765.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4765.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1789	1789	1789	1789	1789	
5°	1778	1781	1783	1780	1776	169
15°	1698	1700	1701	1697	1692	479
25°	1548	1547	1545	1538	1533	713
35°	1343	1344	1339	1331	1328	841
45°	1109	1109	1103	1094	1092	855
55°	852	846	848	839	837	762
65°	579	576	578	570	567	574
75°	302	298	300	298	293	320
85°	67	65	66	63	61	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1789.0	1789.0	1789.0	1789.0	1789.0
2.5°	1784.4	1787.8	1790.1	1787.3	1786.7
5°	1778.2	1781.0	1783.2	1780.5	1775.9
7.5°	1765.5	1769.0	1770.7	1767.8	1761.6
10°	1747.8	1751.3	1751.8	1749.0	1745.5
12.5°	1726.2	1728.4	1728.4	1726.2	1722.2
15°	1698.1	1699.9	1701.0	1697.0	1691.8
17.5°	1666.2	1669.0	1667.9	1661.6	1659.3
20°	1630.2	1632.5	1629.6	1625.6	1620.4
22.5°	1590.7	1591.3	1589.0	1584.4	1579.3
25°	1548.4	1547.3	1545.1	1538.2	1533.0
27.5°	1499.3	1501.6	1495.8	1489.6	1486.2
30°	1450.8	1451.3	1445.6	1437.6	1434.8
32.5°	1398.8	1397.6	1393.6	1385.0	1380.5
35°	1343.3	1343.9	1338.7	1330.7	1327.9
37.5°	1289.6	1286.2	1282.2	1273.1	1271.3
40°	1229.6	1229.0	1223.3	1215.3	1212.5
42.5°	1169.6	1169.0	1164.5	1156.5	1154.2
45°	1109.1	1109.1	1103.3	1094.2	1091.9
47.5°	1047.3	1045.0	1041.0	1033.1	1030.2
50°	982.2	980.5	978.2	969.0	968.4
52.5°	918.2	917.0	913.1	905.1	900.5
55°	852.5	846.2	847.9	838.8	837.1
57.5°	785.1	778.8	782.2	774.2	770.8
60°	718.2	712.0	713.7	708.5	723.4
62.5°	649.7	645.6	645.6	657.7	636.0
65°	579.4	575.9	577.7	570.2	566.8
67.5°	510.3	505.1	515.9	502.2	496.6
70°	440.0	436.5	440.6	432.5	428.5
72.5°	370.3	367.4	366.3	363.4	360.0
75°	302.2	298.3	299.9	297.7	293.1
77.5°	236.0	234.8	234.3	231.4	227.9
80°	174.2	173.1	171.9	169.7	167.4
82.5°	116.6	115.5	114.9	113.7	113.2
85°	66.8	65.1	66.2	63.4	61.2
87.5°	25.2	24.6	25.8	23.5	21.7
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)