

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: P735713

Luminaire Tested: **24APR-49-B2750-W2D-CP250-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735713
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-CP250-2700K
Description: 2X4 4900 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 2700K CCT, AND CP250 LENS

Light Source: -
Ballast/Driver: -

Summary

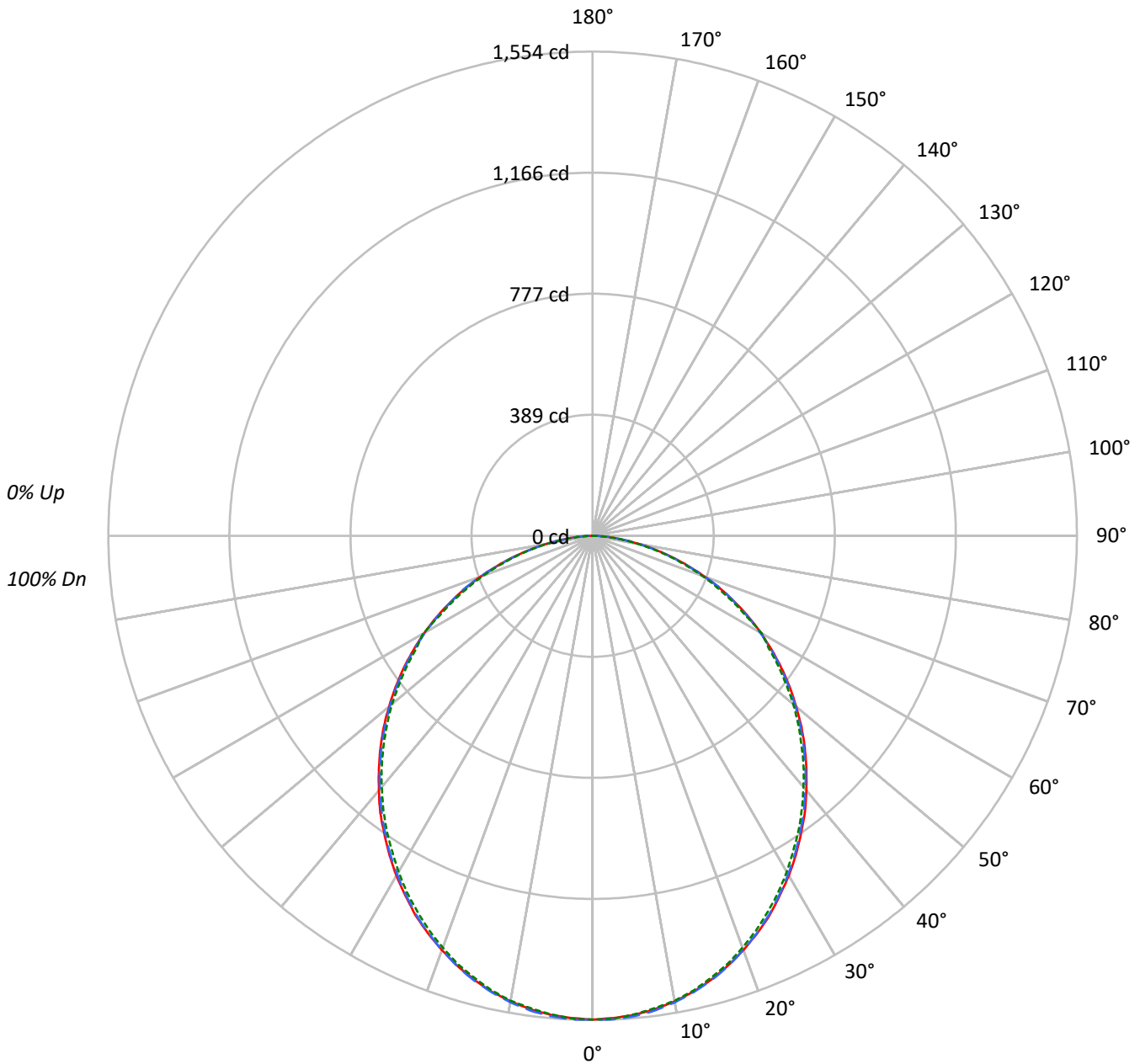
Lumens per Lamp: N/A
Luminaire Lumens: 4136.0 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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: P735713

CATALOG NUMBER: 24APR-49-B2750-W2D-CP250-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P735713

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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°	2089	2089	2089
5°	2085	2091	2082
10°	2073	2078	2070
15°	2053	2057	2046
20°	2026	2025	2014
25°	1995	1991	1976
30°	1956	1950	1935
35°	1915	1909	1893
40°	1875	1865	1848
45°	1832	1822	1803
50°	1784	1777	1760
55°	1736	1727	1704
60°	1678	1667	1690
65°	1601	1596	1566
70°	1502	1504	1463
75°	1364	1353	1323
80°	1172	1157	1126
85°	895	888	820



TEST NUMBER: P735713

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.7	3.5
10°-20°	415.5	10.0
20°-30°	616.7	14.9
30°-40°	725.9	17.6
40°-50°	737.7	17.8
50°-60°	655.8	15.9
60°-70°	494.7	12.0
70°-80°	274.8	6.6
80°-90°	68.3	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°	1178.8	28.5
0°-40°	1904.8	46.1
0°-60°	3298.3	79.7
0°-90°	4136.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4136.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1553	1553	1553	1553	1553	
5°	1543	1546	1548	1545	1542	146
15°	1474	1476	1476	1473	1468	416
25°	1344	1343	1341	1335	1331	618
35°	1166	1166	1162	1155	1153	730
45°	963	963	958	950	948	743
55°	740	734	736	728	727	661
65°	503	500	501	495	492	498
75°	262	259	260	258	254	278
85°	58	56	58	55	53	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1552.9	1552.9	1552.9	1552.9	1552.9
2.5°	1548.9	1551.8	1553.8	1551.4	1550.9
5°	1543.4	1545.9	1547.8	1545.4	1541.5
7.5°	1532.5	1535.5	1537.0	1534.5	1529.0
10°	1517.1	1520.1	1520.6	1518.2	1515.1
12.5°	1498.3	1500.3	1500.3	1498.3	1494.8
15°	1474.0	1475.5	1476.5	1473.0	1468.5
17.5°	1446.2	1448.7	1447.7	1442.3	1440.3
20°	1415.0	1417.0	1414.5	1411.0	1406.5
22.5°	1380.7	1381.2	1379.3	1375.3	1370.8
25°	1344.0	1343.1	1341.1	1335.1	1330.7
27.5°	1301.4	1303.4	1298.4	1292.9	1290.0
30°	1259.3	1259.7	1254.8	1247.8	1245.4
32.5°	1214.1	1213.1	1209.6	1202.2	1198.2
35°	1166.0	1166.5	1162.0	1155.1	1152.6
37.5°	1119.3	1116.4	1113.0	1105.0	1103.5
40°	1067.3	1066.8	1061.9	1054.9	1052.4
42.5°	1015.2	1014.7	1010.7	1003.8	1001.9
45°	962.7	962.7	957.7	949.7	947.7
47.5°	909.1	907.1	903.6	896.7	894.2
50°	852.5	851.1	849.1	841.1	840.6
52.5°	797.0	796.0	792.5	785.6	781.6
55°	740.0	734.5	736.0	728.0	726.6
57.5°	681.4	676.0	678.9	672.0	669.1
60°	623.4	618.0	619.4	615.0	627.9
62.5°	563.9	560.4	560.4	570.8	552.0
65°	502.9	499.9	501.4	495.0	492.0
67.5°	442.9	438.4	447.8	435.9	431.0
70°	381.9	378.9	382.4	375.4	372.0
72.5°	321.4	318.9	317.9	315.4	312.5
75°	262.3	258.9	260.3	258.4	254.4
77.5°	204.8	203.8	203.4	200.9	197.9
80°	151.2	150.3	149.3	147.3	145.3
82.5°	101.2	100.2	99.7	98.7	98.2
85°	58.0	56.5	57.5	55.1	53.1
87.5°	21.8	21.3	22.4	20.4	18.8
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)