

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: P735712

Luminaire Tested: **24APR-49-B2750-W2D-CP125-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735712
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-CP125-5000K
Description: 2X4 4900 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 5000K CCT, AND CP125 LENS

Light Source: -
Ballast/Driver: -

Summary

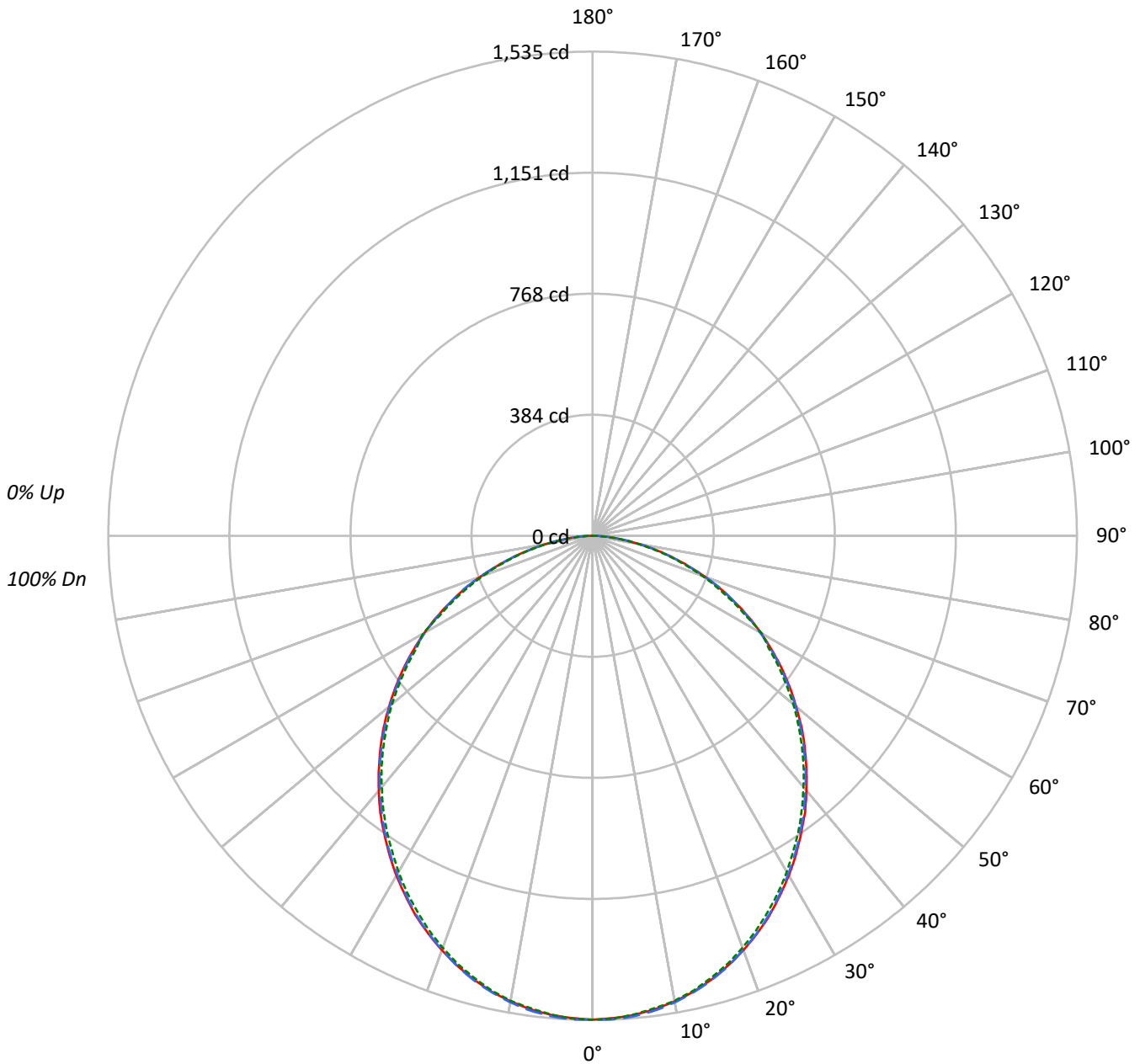
Lumens per Lamp: N/A
Luminaire Lumens: 4086.0 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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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°	2064	2064	2064
5°	2059	2065	2057
10°	2048	2052	2045
15°	2028	2032	2021
20°	2002	2001	1990
25°	1971	1967	1952
30°	1933	1926	1911
35°	1892	1885	1870
40°	1852	1842	1826
45°	1810	1800	1782
50°	1763	1756	1738
55°	1715	1706	1684
60°	1657	1647	1669
65°	1582	1577	1547
70°	1484	1486	1446
75°	1347	1337	1306
80°	1158	1142	1112
85°	885	877	809



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.9	3.5
10°-20°	410.5	10.0
20°-30°	609.2	14.9
30°-40°	717.1	17.6
40°-50°	728.8	17.8
50°-60°	647.9	15.9
60°-70°	488.7	12.0
70°-80°	271.4	6.6
80°-90°	67.5	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°	1164.6	28.5
0°-40°	1881.7	46.1
0°-60°	3258.4	79.7
0°-90°	4086.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4086.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1534	1534	1534	1534	1534	
5°	1525	1527	1529	1527	1523	145
15°	1456	1458	1459	1455	1451	411
25°	1328	1327	1325	1319	1315	611
35°	1152	1152	1148	1141	1139	721
45°	951	951	946	938	936	734
55°	731	726	727	719	718	653
65°	497	494	495	489	486	492
75°	259	256	257	255	251	275
85°	57	56	57	54	52	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1534.1	1534.1	1534.1	1534.1	1534.1
2.5°	1530.2	1533.1	1535.0	1532.6	1532.1
5°	1524.8	1527.2	1529.1	1526.7	1522.8
7.5°	1514.0	1516.9	1518.4	1515.9	1510.5
10°	1498.8	1501.8	1502.2	1499.8	1496.8
12.5°	1480.2	1482.1	1482.1	1480.2	1476.8
15°	1456.1	1457.7	1458.6	1455.2	1450.8
17.5°	1428.8	1431.1	1430.2	1424.8	1422.9
20°	1397.9	1399.9	1397.4	1394.0	1389.5
22.5°	1364.0	1364.5	1362.6	1358.7	1354.2
25°	1327.8	1326.9	1324.9	1319.0	1314.6
27.5°	1285.7	1287.6	1282.7	1277.3	1274.4
30°	1244.0	1244.5	1239.6	1232.7	1230.3
32.5°	1199.4	1198.4	1195.0	1187.7	1183.8
35°	1151.9	1152.4	1147.9	1141.1	1138.6
37.5°	1105.8	1102.9	1099.5	1091.7	1090.1
40°	1054.4	1053.9	1049.0	1042.1	1039.7
42.5°	1003.0	1002.5	998.5	991.7	989.7
45°	951.0	951.0	946.1	938.2	936.3
47.5°	898.1	896.1	892.7	885.9	883.4
50°	842.2	840.8	838.8	831.0	830.4
52.5°	787.4	786.4	782.9	776.1	772.2
55°	731.0	725.6	727.1	719.2	717.8
57.5°	673.2	667.8	670.7	663.9	661.0
60°	615.9	610.5	612.0	607.5	620.3
62.5°	557.1	553.6	553.6	563.9	545.4
65°	496.8	493.8	495.4	489.0	486.0
67.5°	437.6	433.1	442.4	430.7	425.8
70°	377.3	374.3	377.8	370.9	367.5
72.5°	317.5	315.0	314.1	311.6	308.7
75°	259.2	255.8	257.2	255.2	251.3
77.5°	202.4	201.3	200.9	198.4	195.5
80°	149.4	148.5	147.4	145.5	143.5
82.5°	99.9	99.0	98.5	97.5	97.0
85°	57.3	55.9	56.8	54.4	52.4
87.5°	21.6	21.1	22.1	20.1	18.6
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)