

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: P735722

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735722
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-5000K
Description: 2X4 5800 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 5000K CCT

Light Source: -
Ballast/Driver: -

Summary

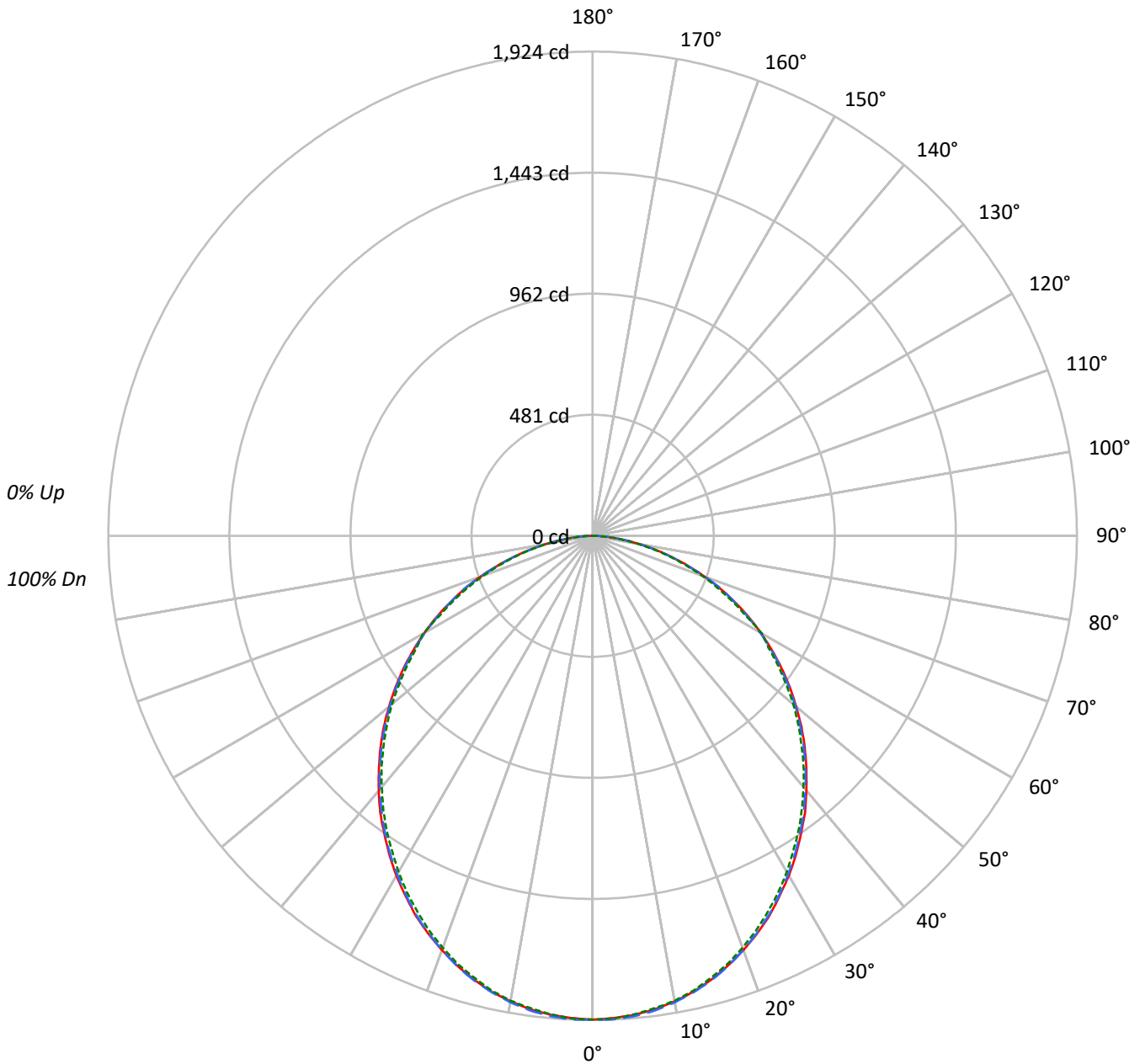
Lumens per Lamp: N/A
Luminaire Lumens: 5121.0 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2587	2587	2587
5°	2581	2588	2578
10°	2566	2572	2563
15°	2542	2546	2533
20°	2509	2508	2494
25°	2470	2465	2446
30°	2422	2414	2396
35°	2371	2363	2344
40°	2321	2309	2289
45°	2268	2256	2233
50°	2209	2201	2179
55°	2149	2138	2110
60°	2077	2064	2092
65°	1982	1977	1939
70°	1860	1863	1812
75°	1688	1676	1638
80°	1451	1432	1394
85°	1108	1099	1014



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.6	3.5
10°-20°	514.4	10.0
20°-30°	763.6	14.9
30°-40°	898.8	17.6
40°-50°	913.4	17.8
50°-60°	812.0	15.9
60°-70°	612.5	12.0
70°-80°	340.2	6.6
80°-90°	84.6	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°	1459.6	28.5
0°-40°	2358.4	46.1
0°-60°	4083.7	79.7
0°-90°	5121.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5121.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1923	1923	1923	1923	1923	
5°	1911	1914	1916	1914	1909	181
15°	1825	1827	1828	1824	1818	514
25°	1664	1663	1660	1653	1648	766
35°	1444	1444	1439	1430	1427	904
45°	1192	1192	1186	1176	1173	919
55°	916	909	911	901	900	819
65°	623	619	621	613	609	616
75°	325	320	322	320	315	344
85°	72	70	71	68	66	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1922.7	1922.7	1922.7	1922.7	1922.7
2.5°	1917.8	1921.4	1923.8	1920.9	1920.2
5°	1911.0	1914.0	1916.5	1913.5	1908.6
7.5°	1897.4	1901.2	1903.0	1899.9	1893.2
10°	1878.4	1882.2	1882.7	1879.7	1876.0
12.5°	1855.1	1857.6	1857.6	1855.1	1850.8
15°	1825.0	1826.9	1828.1	1823.8	1818.2
17.5°	1790.7	1793.7	1792.5	1785.8	1783.3
20°	1752.0	1754.4	1751.3	1747.1	1741.5
22.5°	1709.5	1710.2	1707.7	1702.8	1697.3
25°	1664.1	1662.9	1660.5	1653.1	1647.6
27.5°	1611.3	1613.8	1607.6	1600.9	1597.2
30°	1559.2	1559.7	1553.6	1545.0	1542.0
32.5°	1503.3	1502.0	1497.7	1488.5	1483.6
35°	1443.6	1444.3	1438.7	1430.2	1427.1
37.5°	1385.9	1382.3	1378.0	1368.2	1366.2
40°	1321.5	1320.8	1314.7	1306.1	1303.1
42.5°	1257.0	1256.4	1251.5	1242.9	1240.5
45°	1191.9	1191.9	1185.7	1175.9	1173.4
47.5°	1125.6	1123.1	1118.8	1110.3	1107.2
50°	1055.5	1053.7	1051.3	1041.4	1040.8
52.5°	986.8	985.5	981.3	972.7	967.8
55°	916.2	909.4	911.3	901.4	899.6
57.5°	843.7	837.0	840.6	832.1	828.4
60°	771.9	765.2	767.0	761.4	777.4
62.5°	698.2	693.9	693.9	706.8	683.5
65°	622.7	618.9	620.9	612.9	609.1
67.5°	548.4	542.8	554.5	539.7	533.7
70°	472.8	469.1	473.5	464.8	460.5
72.5°	397.9	394.8	393.6	390.5	386.9
75°	324.8	320.5	322.4	319.9	315.0
77.5°	253.6	252.3	251.8	248.7	245.0
80°	187.3	186.1	184.8	182.3	179.9
82.5°	125.3	124.1	123.4	122.2	121.6
85°	71.8	70.0	71.2	68.2	65.7
87.5°	27.0	26.4	27.7	25.2	23.3
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)