

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: P735719

Luminaire Tested: **24APR-58-B2750-W2D-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735719
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-3000K
Description: 2X4 5800 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 3000K CCT

Light Source: -
Ballast/Driver: -

Summary

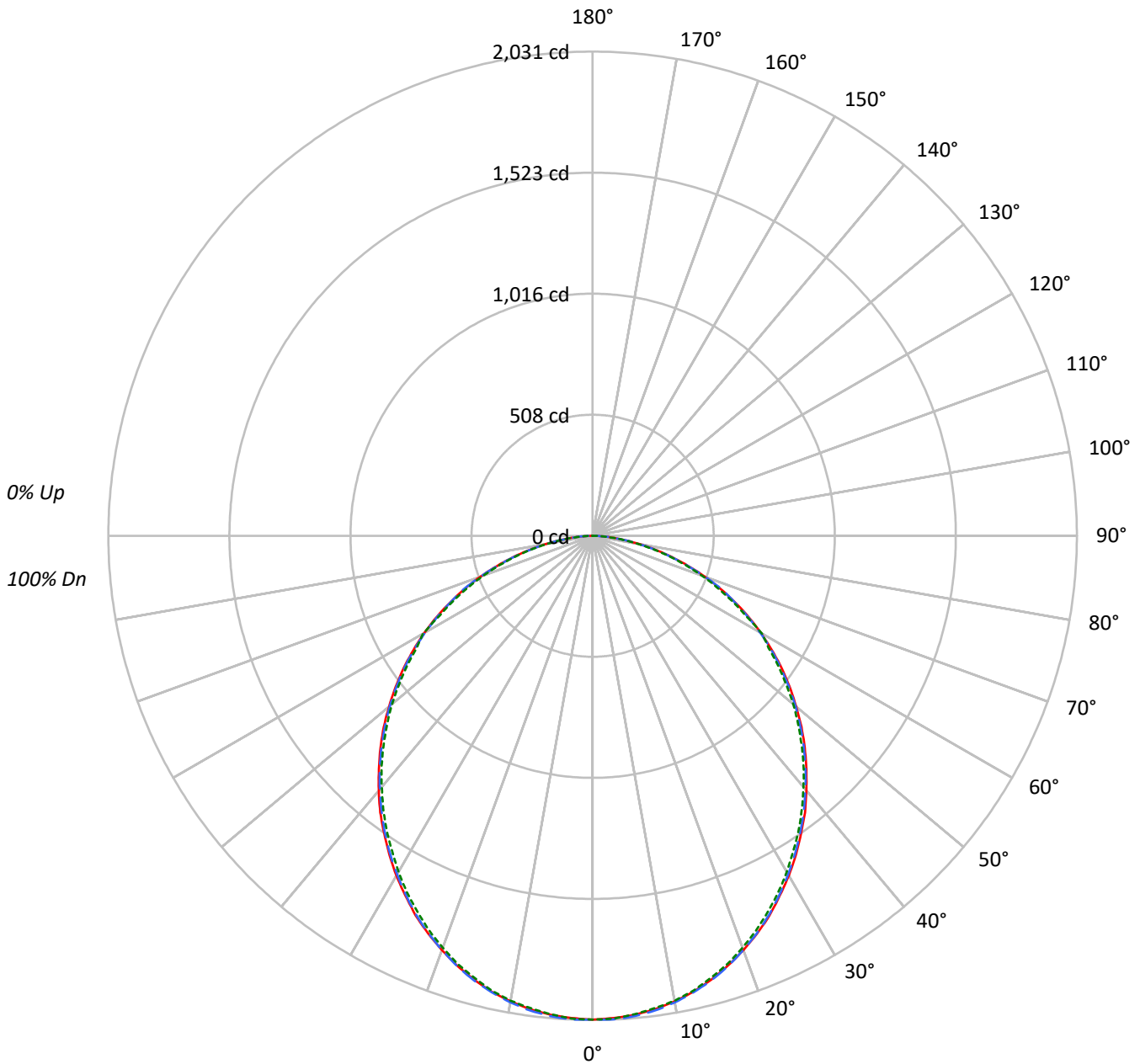
Lumens per Lamp: N/A
Luminaire Lumens: 5406.0 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2731	2731	2731
5°	2725	2732	2721
10°	2709	2715	2706
15°	2684	2688	2674
20°	2648	2647	2632
25°	2608	2602	2582
30°	2557	2548	2529
35°	2503	2495	2474
40°	2450	2438	2416
45°	2394	2382	2357
50°	2332	2323	2300
55°	2269	2257	2228
60°	2193	2179	2208
65°	2093	2087	2047
70°	1964	1966	1913
75°	1783	1769	1729
80°	1532	1512	1471
85°	1170	1159	1071



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.7	3.5
10°-20°	543.1	10.0
20°-30°	806.1	14.9
30°-40°	948.8	17.6
40°-50°	964.2	17.8
50°-60°	857.2	15.9
60°-70°	646.6	12.0
70°-80°	359.1	6.6
80°-90°	89.3	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°	1540.8	28.5
0°-40°	2489.6	46.1
0°-60°	4311.0	79.7
0°-90°	5406.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5406.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2030	2030	2030	2030	2030	
5°	2017	2020	2023	2020	2015	191
15°	1926	1929	1930	1925	1919	543
25°	1757	1756	1753	1745	1739	808
35°	1524	1525	1519	1510	1506	954
45°	1258	1258	1252	1241	1239	971
55°	967	960	962	952	950	864
65°	657	653	655	647	643	651
75°	343	338	340	338	332	364
85°	76	74	75	72	69	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2029.7	2029.7	2029.7	2029.7	2029.7
2.5°	2024.5	2028.3	2030.9	2027.8	2027.1
5°	2017.4	2020.5	2023.1	2020.0	2014.8
7.5°	2003.0	2007.0	2008.9	2005.6	1998.5
10°	1983.0	1986.9	1987.5	1984.3	1980.4
12.5°	1958.4	1961.0	1961.0	1958.4	1953.8
15°	1926.5	1928.6	1929.8	1925.3	1919.4
17.5°	1890.3	1893.5	1892.2	1885.1	1882.5
20°	1849.5	1852.1	1848.8	1844.3	1838.4
22.5°	1804.7	1805.4	1802.8	1797.6	1791.7
25°	1756.7	1755.5	1752.9	1745.1	1739.3
27.5°	1701.0	1703.6	1697.1	1689.9	1686.1
30°	1645.9	1646.5	1640.1	1630.9	1627.8
32.5°	1586.9	1585.6	1581.1	1571.4	1566.2
35°	1524.0	1524.7	1518.8	1509.8	1506.5
37.5°	1463.0	1459.2	1454.7	1444.3	1442.3
40°	1395.0	1394.3	1387.9	1378.8	1375.6
42.5°	1327.0	1326.3	1321.1	1312.1	1309.5
45°	1258.3	1258.3	1251.7	1241.3	1238.7
47.5°	1188.2	1185.6	1181.1	1172.1	1168.8
50°	1114.3	1112.4	1109.8	1099.4	1098.7
52.5°	1041.7	1040.4	1035.9	1026.9	1021.7
55°	967.2	960.1	962.0	951.6	949.7
57.5°	890.7	883.6	887.4	878.4	874.5
60°	814.8	807.7	809.7	803.8	820.7
62.5°	737.1	732.5	732.5	746.1	721.5
65°	657.3	653.4	655.4	647.0	643.0
67.5°	578.9	573.1	585.4	569.8	563.4
70°	499.2	495.2	499.8	490.7	486.2
72.5°	420.1	416.8	415.5	412.3	408.4
75°	342.9	338.4	340.3	337.7	332.5
77.5°	267.7	266.4	265.8	262.6	258.6
80°	197.7	196.4	195.1	192.5	189.9
82.5°	132.2	131.0	130.3	129.0	128.4
85°	75.8	73.9	75.1	72.0	69.4
87.5°	28.5	27.9	29.2	26.6	24.6
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)