

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: P735718

Luminaire Tested: **24APR-58-B2750-W2D-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735718
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-2700K
Description: 2X4 5800 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 2700K CCT

Light Source: -
Ballast/Driver: -

Summary

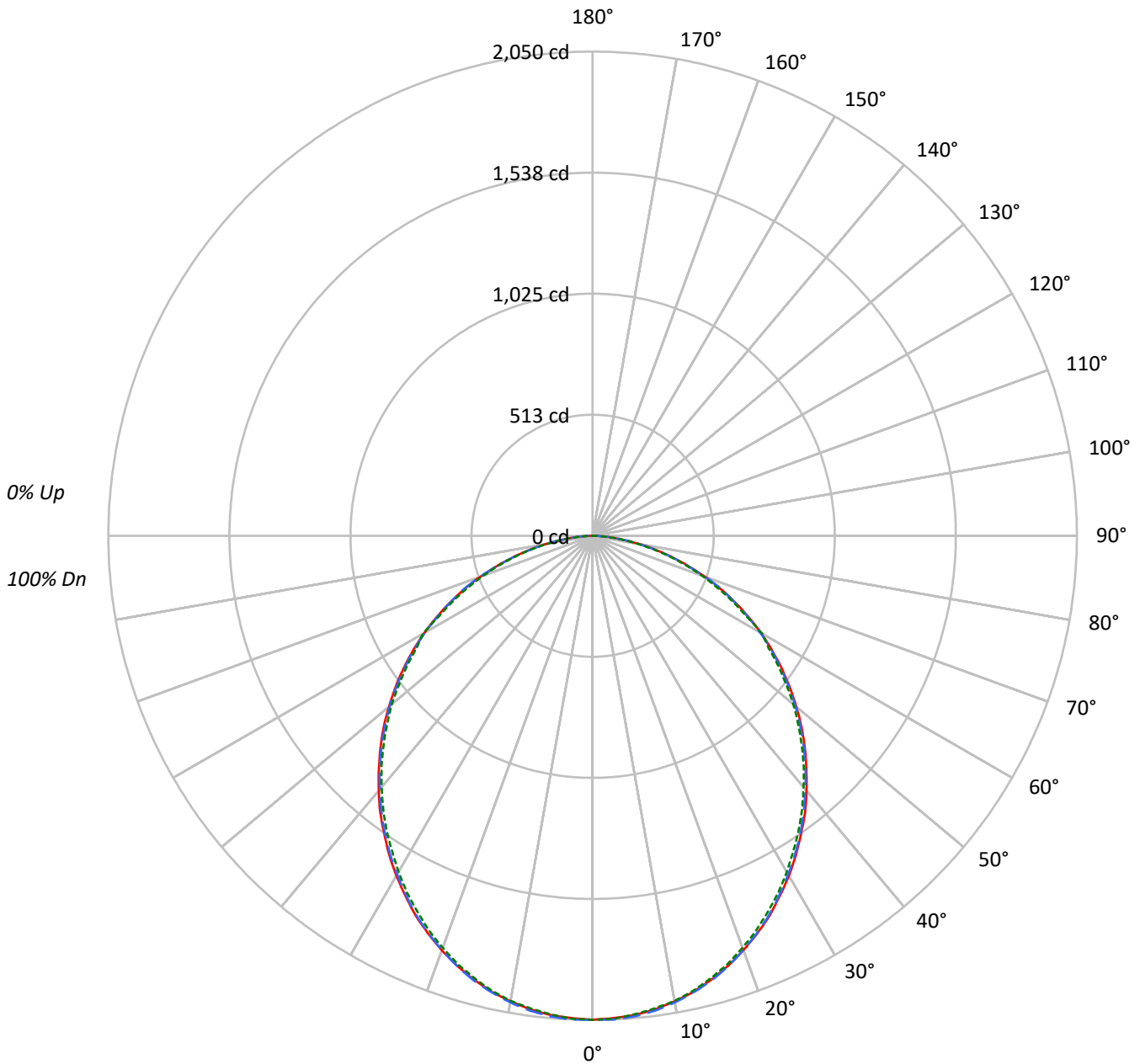
Lumens per Lamp: N/A
Luminaire Lumens: 5458.0 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2757	2757	2757
5°	2751	2759	2747
10°	2735	2742	2732
15°	2709	2714	2699
20°	2674	2673	2658
25°	2633	2627	2607
30°	2582	2573	2553
35°	2527	2519	2498
40°	2474	2461	2439
45°	2417	2405	2380
50°	2355	2345	2322
55°	2291	2278	2249
60°	2214	2200	2230
65°	2113	2107	2067
70°	1983	1985	1931
75°	1800	1786	1745
80°	1547	1526	1485
85°	1183	1172	1082



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.5	3.5
10°-20°	548.3	10.0
20°-30°	813.8	14.9
30°-40°	957.9	17.6
40°-50°	973.5	17.8
50°-60°	865.4	15.9
60°-70°	652.8	12.0
70°-80°	362.6	6.6
80°-90°	90.2	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°	1555.6	28.5
0°-40°	2513.6	46.1
0°-60°	4352.5	79.7
0°-90°	5458.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5458.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2049	2049	2049	2049	2049	
5°	2037	2040	2043	2039	2034	193
15°	1945	1947	1948	1944	1938	548
25°	1774	1772	1770	1762	1756	816
35°	1539	1539	1533	1524	1521	963
45°	1270	1270	1264	1253	1251	980
55°	976	969	971	961	959	872
65°	664	660	662	653	649	657
75°	346	342	344	341	336	367
85°	77	75	76	73	70	92
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2049.2	2049.2	2049.2	2049.2	2049.2
2.5°	2044.0	2047.8	2050.4	2047.3	2046.6
5°	2036.8	2040.0	2042.6	2039.4	2034.2
7.5°	2022.3	2026.3	2028.2	2024.9	2017.8
10°	2002.0	2006.0	2006.6	2003.4	1999.4
12.5°	1977.2	1979.8	1979.8	1977.2	1972.6
15°	1945.1	1947.1	1948.4	1943.8	1937.9
17.5°	1908.5	1911.7	1910.4	1903.3	1900.7
20°	1867.3	1869.9	1866.6	1862.0	1856.1
22.5°	1822.0	1822.7	1820.1	1814.9	1808.9
25°	1773.6	1772.4	1769.8	1761.9	1756.0
27.5°	1717.4	1720.0	1713.4	1706.2	1702.3
30°	1661.8	1662.3	1655.8	1646.6	1643.4
32.5°	1602.2	1600.8	1596.3	1586.5	1581.2
35°	1538.6	1539.3	1533.4	1524.3	1521.0
37.5°	1477.1	1473.2	1468.7	1458.2	1456.2
40°	1408.4	1407.7	1401.3	1392.0	1388.8
42.5°	1339.7	1339.1	1333.8	1324.7	1322.1
45°	1270.4	1270.4	1263.8	1253.3	1250.7
47.5°	1199.6	1197.0	1192.4	1183.3	1180.0
50°	1125.0	1123.1	1120.5	1110.0	1109.3
52.5°	1051.8	1050.4	1045.8	1036.7	1031.5
55°	976.5	969.3	971.2	960.7	958.8
57.5°	899.2	892.1	895.9	886.8	882.9
60°	822.7	815.5	817.4	811.5	828.6
62.5°	744.2	739.5	739.5	753.3	728.5
65°	663.7	659.7	661.7	653.2	649.2
67.5°	584.5	578.6	591.0	575.3	568.8
70°	504.0	500.0	504.6	495.4	490.9
72.5°	424.1	420.8	419.5	416.2	412.4
75°	346.2	341.6	343.6	340.9	335.7
77.5°	270.3	269.0	268.4	265.1	261.1
80°	199.6	198.3	197.0	194.3	191.7
82.5°	133.5	132.3	131.6	130.2	129.6
85°	76.6	74.6	75.9	72.7	70.1
87.5°	28.8	28.1	29.5	26.9	24.8
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)