

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: P735728

Luminaire Tested: **24APR-58-B2750-W2D-CP250-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735728
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-CP250-2700K
Description: 2X4 5800 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 2700K CCT, AND CP250 LENS

Light Source: -
Ballast/Driver: -

Summary

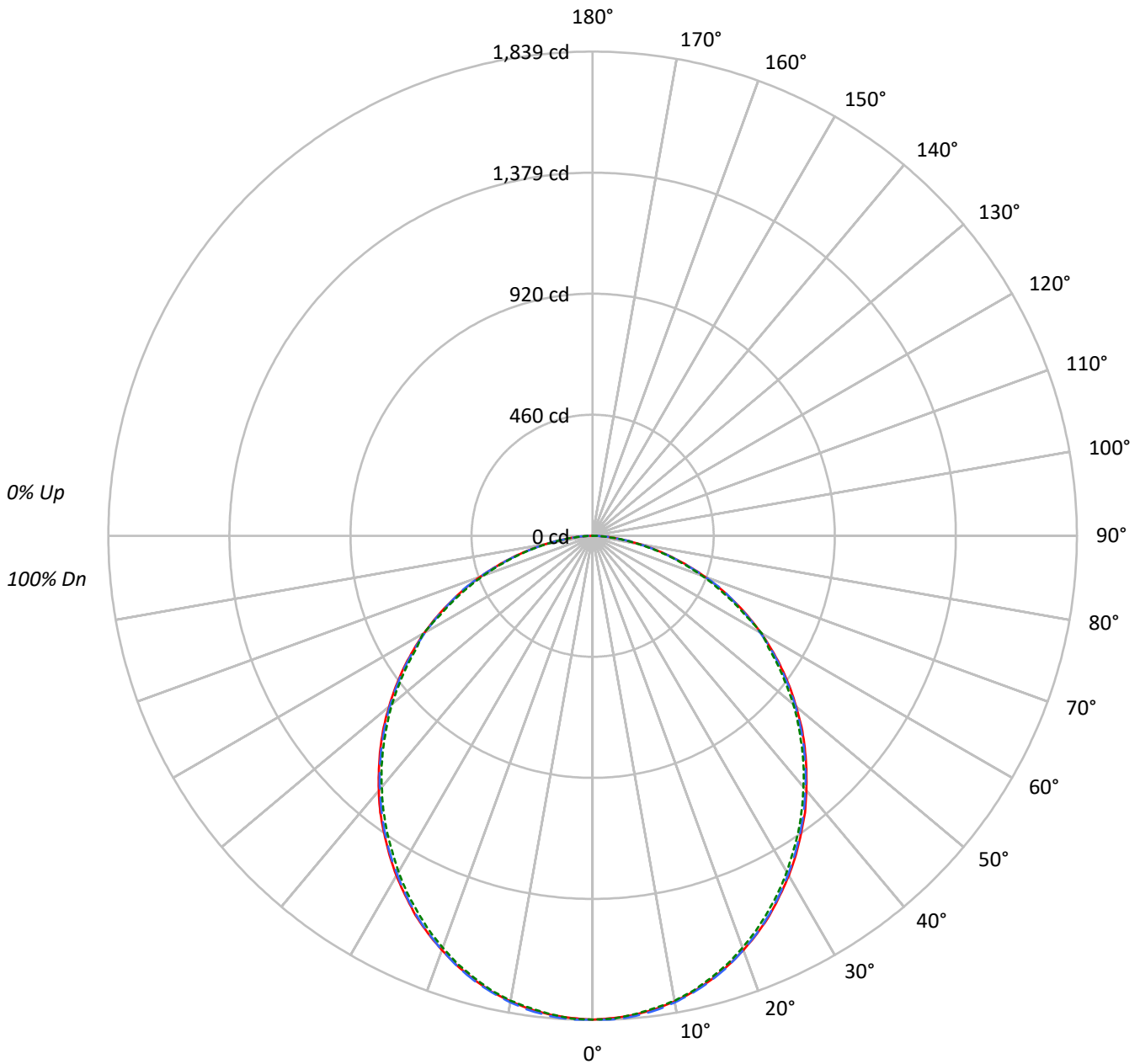
Lumens per Lamp: N/A
Luminaire Lumens: 4895.0 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	2473	2473	2473
5°	2467	2474	2464
10°	2453	2459	2450
15°	2430	2434	2421
20°	2398	2397	2383
25°	2362	2356	2338
30°	2316	2307	2290
35°	2267	2259	2241
40°	2219	2207	2188
45°	2168	2157	2134
50°	2112	2103	2083
55°	2054	2043	2017
60°	1985	1973	2000
65°	1895	1890	1854
70°	1778	1781	1732
75°	1614	1602	1565
80°	1387	1368	1332
85°	1061	1050	969



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.6	3.5
10°-20°	491.7	10.0
20°-30°	729.9	14.9
30°-40°	859.1	17.6
40°-50°	873.1	17.8
50°-60°	776.1	15.9
60°-70°	585.4	12.0
70°-80°	325.2	6.6
80°-90°	80.9	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°	1395.2	28.5
0°-40°	2254.3	46.1
0°-60°	3903.5	79.7
0°-90°	4895.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4895.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1838	1838	1838	1838	1838	
5°	1827	1830	1832	1829	1824	173
15°	1744	1746	1747	1743	1738	492
25°	1591	1590	1587	1580	1575	732
35°	1380	1380	1375	1367	1364	864
45°	1139	1139	1133	1124	1122	879
55°	876	869	871	862	860	782
65°	595	592	594	586	582	589
75°	310	306	308	306	301	329
85°	69	67	68	65	63	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1837.8	1837.8	1837.8	1837.8	1837.8
2.5°	1833.1	1836.6	1838.9	1836.1	1835.5
5°	1826.7	1829.5	1831.9	1829.0	1824.3
7.5°	1813.7	1817.3	1819.0	1816.1	1809.6
10°	1795.5	1799.1	1799.6	1796.7	1793.2
12.5°	1773.2	1775.6	1775.6	1773.2	1769.2
15°	1744.4	1746.3	1747.4	1743.3	1738.0
17.5°	1711.6	1714.5	1713.4	1706.9	1704.6
20°	1674.7	1677.0	1674.0	1670.0	1664.6
22.5°	1634.1	1634.7	1632.4	1627.7	1622.4
25°	1590.7	1589.6	1587.2	1580.2	1574.8
27.5°	1540.2	1542.6	1536.6	1530.2	1526.7
30°	1490.4	1490.9	1485.0	1476.8	1473.9
32.5°	1436.9	1435.7	1431.6	1422.8	1418.1
35°	1379.9	1380.5	1375.2	1367.0	1364.1
37.5°	1324.8	1321.3	1317.2	1307.8	1306.0
40°	1263.1	1262.5	1256.7	1248.4	1245.6
42.5°	1201.5	1200.9	1196.2	1188.1	1185.7
45°	1139.3	1139.3	1133.4	1124.0	1121.7
47.5°	1075.9	1073.5	1069.4	1061.3	1058.3
50°	1009.0	1007.2	1004.9	995.5	994.9
52.5°	943.3	942.0	938.0	929.8	925.1
55°	875.7	869.3	871.0	861.6	859.9
57.5°	806.5	800.0	803.5	795.3	791.9
60°	737.8	731.4	733.1	727.8	743.1
62.5°	667.4	663.2	663.2	675.6	653.3
65°	595.2	591.6	593.5	585.8	582.2
67.5°	524.2	518.9	530.0	515.9	510.1
70°	452.0	448.4	452.6	444.3	440.2
72.5°	380.4	377.4	376.3	373.3	369.8
75°	310.5	306.4	308.1	305.8	301.1
77.5°	242.4	241.2	240.7	237.7	234.2
80°	179.0	177.9	176.6	174.3	171.9
82.5°	119.7	118.6	118.0	116.8	116.3
85°	68.7	66.9	68.0	65.2	62.8
87.5°	25.8	25.2	26.5	24.1	22.3
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)