

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: P735708

Luminaire Tested: **24APR-49-B2750-W2D-CP125-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735708
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-CP125-2700K
Description: 2X4 4900 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 2700K CCT, AND CP125 LENS

Light Source: -
Ballast/Driver: -

Summary

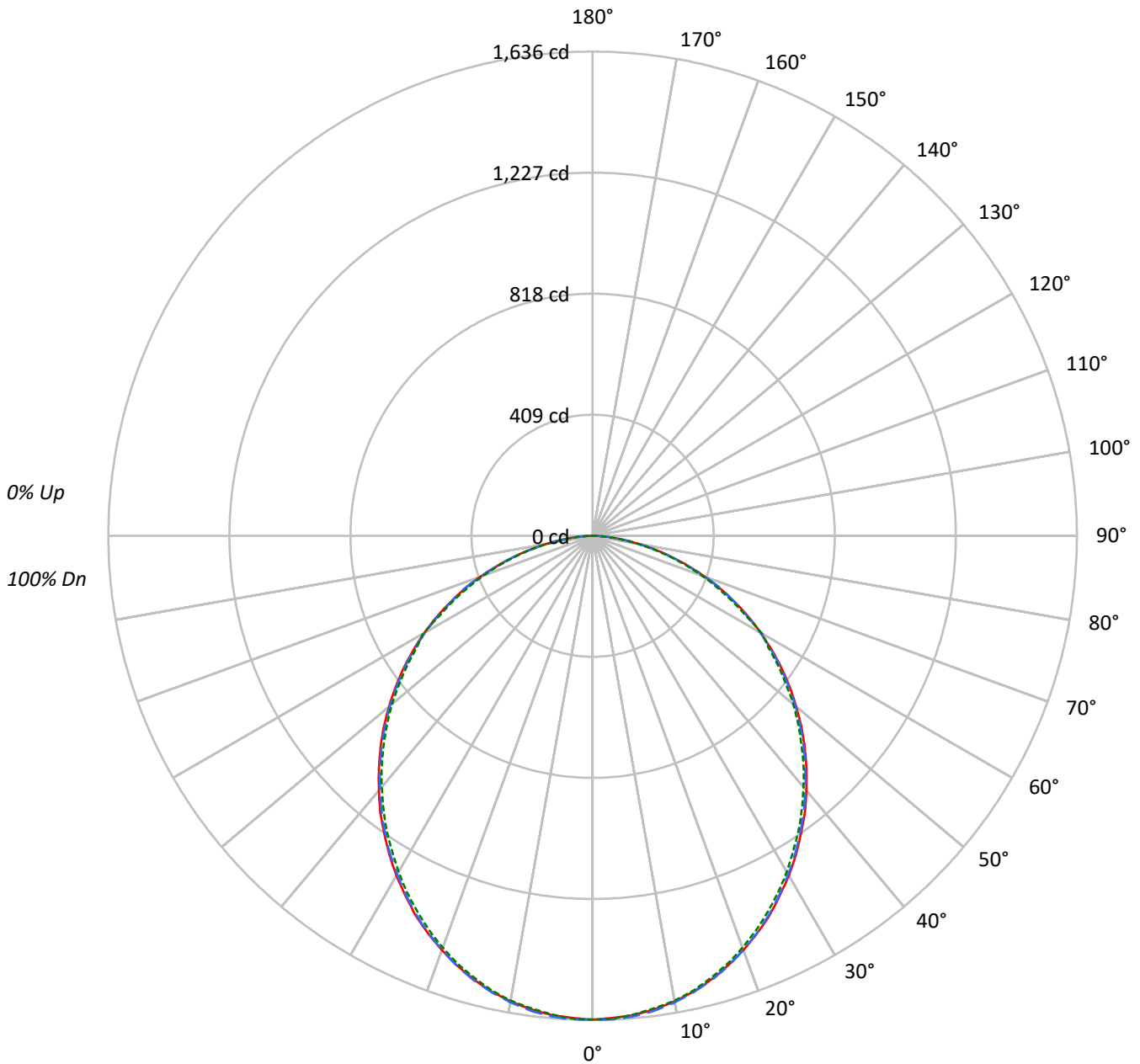
Lumens per Lamp: N/A
Luminaire Lumens: 4354.0 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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									
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°	2199	2199	2199
5°	2195	2201	2192
10°	2182	2187	2179
15°	2161	2165	2153
20°	2133	2132	2120
25°	2101	2096	2080
30°	2060	2052	2037
35°	2016	2009	1993
40°	1973	1963	1946
45°	1928	1918	1898
50°	1879	1871	1852
55°	1827	1818	1794
60°	1766	1755	1779
65°	1685	1681	1649
70°	1581	1584	1541
75°	1436	1425	1392
80°	1234	1217	1185
85°	943	934	863



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.4	3.5
10°-20°	437.4	10.0
20°-30°	649.2	14.9
30°-40°	764.2	17.6
40°-50°	776.6	17.8
50°-60°	690.4	15.9
60°-70°	520.7	12.0
70°-80°	289.2	6.6
80°-90°	71.9	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°	1241.0	28.5
0°-40°	2005.2	46.1
0°-60°	3472.1	79.7
0°-90°	4354.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4354.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1635	1635	1635	1635	1635	
5°	1625	1627	1629	1627	1623	154
15°	1552	1553	1554	1551	1546	437
25°	1415	1414	1412	1406	1401	651
35°	1227	1228	1223	1216	1213	768
45°	1013	1013	1008	1000	998	782
55°	779	773	775	766	765	696
65°	529	526	528	521	518	524
75°	276	272	274	272	268	293
85°	61	60	60	58	56	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1634.7	1634.7	1634.7	1634.7	1634.7
2.5°	1630.5	1633.6	1635.7	1633.2	1632.6
5°	1624.8	1627.3	1629.4	1626.9	1622.7
7.5°	1613.3	1616.4	1618.0	1615.3	1609.6
10°	1597.1	1600.3	1600.7	1598.2	1595.0
12.5°	1577.3	1579.4	1579.4	1577.3	1573.6
15°	1551.6	1553.3	1554.3	1550.6	1545.9
17.5°	1522.5	1525.0	1524.0	1518.3	1516.2
20°	1489.6	1491.7	1489.0	1485.4	1480.7
22.5°	1453.5	1454.0	1452.0	1447.8	1443.0
25°	1414.9	1413.9	1411.8	1405.5	1400.8
27.5°	1370.0	1372.1	1366.8	1361.1	1358.0
30°	1325.6	1326.1	1320.9	1313.6	1311.0
32.5°	1278.1	1277.0	1273.4	1265.6	1261.4
35°	1227.4	1228.0	1223.2	1216.0	1213.3
37.5°	1178.3	1175.2	1171.6	1163.3	1161.6
40°	1123.5	1123.0	1117.8	1110.5	1107.9
42.5°	1068.7	1068.2	1064.0	1056.8	1054.7
45°	1013.4	1013.4	1008.1	999.8	997.7
47.5°	957.0	954.9	951.2	944.0	941.3
50°	897.5	895.9	893.8	885.5	884.9
52.5°	839.0	837.9	834.3	827.0	822.8
55°	779.0	773.2	774.8	766.4	764.9
57.5°	717.3	711.6	714.7	707.4	704.4
60°	656.3	650.6	652.1	647.4	661.0
62.5°	593.7	589.9	589.9	600.9	581.1
65°	529.4	526.2	527.9	521.1	517.9
67.5°	466.3	461.5	471.4	458.9	453.7
70°	402.0	398.8	402.6	395.2	391.6
72.5°	338.3	335.7	334.7	332.0	329.0
75°	276.2	272.5	274.1	272.0	267.8
77.5°	215.6	214.5	214.1	211.5	208.3
80°	159.2	158.2	157.1	155.0	152.9
82.5°	106.5	105.5	105.0	103.9	103.4
85°	61.1	59.5	60.5	58.0	55.9
87.5°	23.0	22.4	23.5	21.4	19.8
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)