

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: P735709

Luminaire Tested: **24APR-49-B2750-W2D-CP125-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735709
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-CP125-3000K
Description: 2X4 4900 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 3000K CCT, AND CP125 LENS

Light Source: -
Ballast/Driver: -

Summary

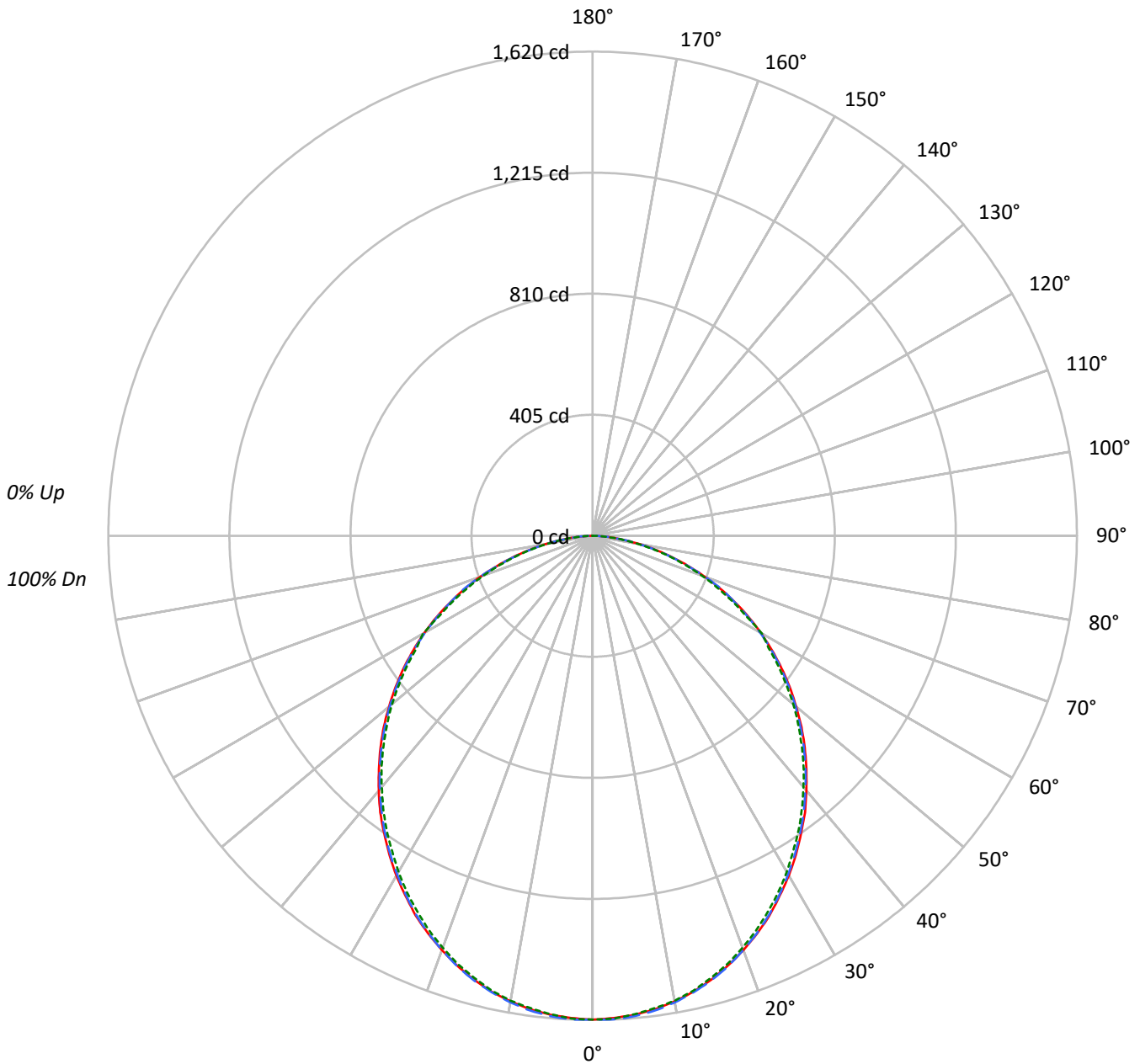
Lumens per Lamp: N/A
Luminaire Lumens: 4312.0 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2178	2178	2178
5°	2173	2180	2171
10°	2161	2166	2158
15°	2141	2144	2133
20°	2112	2112	2100
25°	2080	2076	2060
30°	2040	2032	2017
35°	1997	1990	1974
40°	1954	1944	1927
45°	1910	1900	1880
50°	1860	1853	1834
55°	1810	1800	1777
60°	1749	1738	1762
65°	1669	1664	1633
70°	1566	1568	1526
75°	1422	1411	1379
80°	1222	1206	1174
85°	934	925	854



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.9	3.5
10°-20°	433.2	10.0
20°-30°	642.9	14.9
30°-40°	756.8	17.6
40°-50°	769.1	17.8
50°-60°	683.7	15.9
60°-70°	515.7	12.0
70°-80°	286.4	6.6
80°-90°	71.2	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°	1229.0	28.5
0°-40°	1985.8	46.1
0°-60°	3438.6	79.7
0°-90°	4312.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4312.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1619	1619	1619	1619	1619	
5°	1609	1612	1614	1611	1607	153
15°	1537	1538	1539	1536	1531	433
25°	1401	1400	1398	1392	1387	645
35°	1216	1216	1211	1204	1202	761
45°	1004	1004	998	990	988	774
55°	771	766	767	759	758	689
65°	524	521	523	516	513	519
75°	274	270	271	269	265	290
85°	60	59	60	57	55	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1618.9	1618.9	1618.9	1618.9	1618.9
2.5°	1614.8	1617.9	1619.9	1617.4	1616.9
5°	1609.1	1611.6	1613.7	1611.2	1607.1
7.5°	1597.7	1600.8	1602.4	1599.8	1594.1
10°	1581.7	1584.8	1585.3	1582.8	1579.6
12.5°	1562.1	1564.1	1564.1	1562.1	1558.5
15°	1536.7	1538.3	1539.3	1535.7	1531.0
17.5°	1507.8	1510.3	1509.3	1503.6	1501.6
20°	1475.2	1477.3	1474.7	1471.1	1466.4
22.5°	1439.5	1440.0	1437.9	1433.8	1429.1
25°	1401.2	1400.2	1398.2	1392.0	1387.3
27.5°	1356.8	1358.8	1353.6	1348.0	1344.9
30°	1312.9	1313.3	1308.2	1300.9	1298.4
32.5°	1265.8	1264.7	1261.1	1253.4	1249.2
35°	1215.6	1216.1	1211.4	1204.2	1201.6
37.5°	1167.0	1163.9	1160.3	1152.0	1150.4
40°	1112.7	1112.2	1107.0	1099.7	1097.2
42.5°	1058.4	1057.9	1053.8	1046.6	1044.5
45°	1003.6	1003.6	998.4	990.1	988.1
47.5°	947.7	945.7	942.1	934.9	932.3
50°	888.8	887.3	885.2	876.9	876.4
52.5°	830.9	829.8	826.2	819.0	814.9
55°	771.4	765.8	767.3	759.0	757.5
57.5°	710.4	704.8	707.8	700.6	697.6
60°	649.9	644.3	645.8	641.1	654.6
62.5°	587.9	584.3	584.3	595.1	575.5
65°	524.3	521.2	522.8	516.0	512.9
67.5°	461.8	457.1	466.9	454.5	449.3
70°	398.1	395.0	398.7	391.4	387.8
72.5°	335.1	332.4	331.5	328.8	325.8
75°	273.5	269.9	271.4	269.4	265.2
77.5°	213.6	212.5	212.0	209.4	206.3
80°	157.7	156.7	155.6	153.5	151.5
82.5°	105.5	104.5	103.9	102.9	102.4
85°	60.5	58.9	59.9	57.4	55.3
87.5°	22.8	22.2	23.3	21.2	19.6
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)