

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: P735697

Luminaire Tested: **22APR-38-B2750-W2D-CP125-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735697
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P708781)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 22APR-38-B2750-W2D-CP125-5000K
Description: 2X2 3800 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 5000K CCT, AND CP125 LENS

Light Source: -
Ballast/Driver: -

Summary

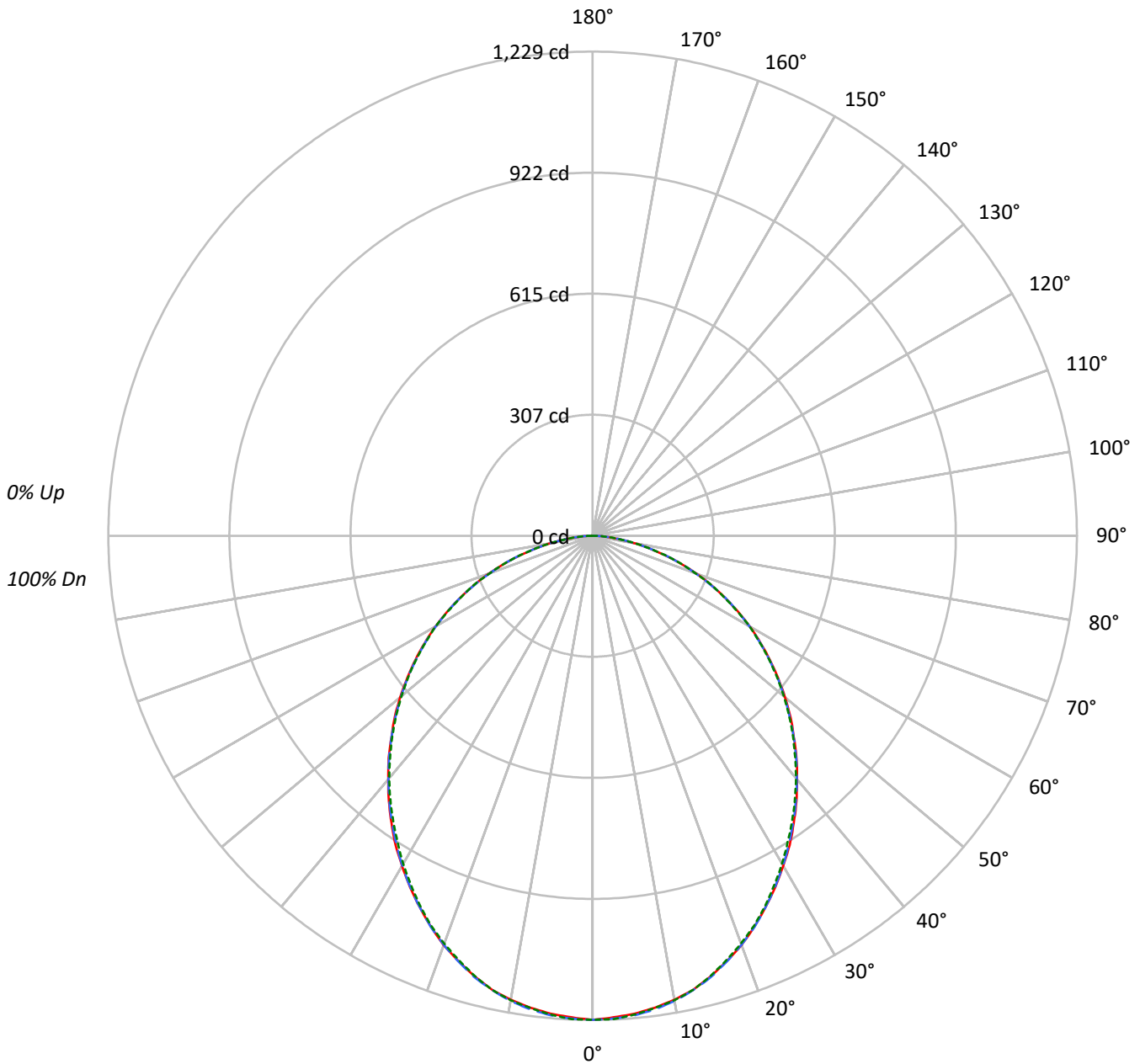
Lumens per Lamp: N/A
Luminaire Lumens: 3139.0 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43
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	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71																			
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60																			
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51																			
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45																			
6	71	58	49	43	69	57	48	42	55	47	42	53	47	42	52	46	41	39																			
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35																			
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31																			
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28																			
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3306	3306	3306
5°	3289	3301	3296
10°	3267	3276	3271
15°	3225	3232	3222
20°	3166	3164	3154
25°	3086	3086	3076
30°	3006	3003	2987
35°	2924	2916	2899
40°	2835	2832	2820
45°	2748	2745	2735
50°	2668	2657	2650
55°	2575	2563	2563
60°	2479	2471	2476
65°	2350	2356	2340
70°	2197	2183	2183
75°	1959	1967	1967
80°	1657	1657	1671
85°	1257	1257	1281



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.8	3.7
10°-20°	326.5	10.4
20°-30°	478.7	15.2
30°-40°	555.3	17.7
40°-50°	556.8	17.7
50°-60°	489.7	15.6
60°-70°	365.4	11.6
70°-80°	201.1	6.4
80°-90°	49.8	1.6
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°	921.0	29.3
0°-40°	1476.3	47.0
0°-60°	2522.7	80.4
0°-90°	3139.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3139.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1229	1229	1229	1229	1229	
5°	1218	1222	1222	1222	1220	116
15°	1158	1162	1160	1158	1157	326
25°	1039	1044	1039	1038	1036	479
35°	890	891	888	885	882	557
45°	722	725	721	720	719	558
55°	549	550	546	547	546	491
65°	369	369	370	368	368	366
75°	188	189	189	188	189	201
85°	41	42	41	41	42	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1228.7	1228.7	1228.7	1228.7	1228.7
2.5°	1223.5	1227.8	1226.9	1229.5	1227.8
5°	1217.7	1221.9	1221.9	1221.9	1220.2
7.5°	1208.3	1212.5	1212.5	1212.5	1209.1
10°	1195.6	1199.9	1199.0	1199.0	1197.2
12.5°	1180.4	1182.9	1181.1	1181.1	1180.4
15°	1157.5	1162.5	1160.0	1158.2	1156.6
17.5°	1131.9	1137.1	1132.8	1131.9	1129.4
20°	1105.6	1109.0	1104.8	1104.8	1101.4
22.5°	1073.3	1076.7	1074.2	1072.6	1070.8
25°	1039.4	1043.7	1039.4	1038.5	1036.1
27.5°	1004.6	1008.0	1003.8	1000.4	998.8
30°	967.3	969.8	966.5	964.0	961.3
32.5°	930.8	930.8	927.4	924.9	921.5
35°	890.1	891.0	887.6	885.0	882.5
37.5°	849.5	851.1	847.7	845.2	843.4
40°	807.0	808.6	806.1	803.5	802.8
42.5°	766.2	766.2	764.6	762.0	760.3
45°	722.2	724.7	721.3	720.4	718.6
47.5°	681.4	681.4	678.0	676.2	676.2
50°	637.3	638.9	634.7	633.8	633.1
52.5°	593.1	592.2	591.4	590.6	589.7
55°	548.9	549.8	546.4	547.3	546.4
57.5°	504.9	504.0	503.1	502.4	501.5
60°	460.7	460.0	459.1	458.2	460.0
62.5°	414.9	415.8	413.3	415.8	412.4
65°	369.1	369.1	370.0	368.2	367.5
67.5°	325.0	325.0	323.3	323.3	326.7
70°	279.2	280.0	277.5	280.9	277.5
72.5°	234.2	235.0	234.2	233.3	235.0
75°	188.4	189.2	189.2	187.5	189.2
77.5°	146.8	147.7	146.8	145.9	146.8
80°	106.9	107.8	106.9	106.0	107.8
82.5°	71.2	72.1	71.2	71.2	72.1
85°	40.7	41.5	40.7	40.7	41.5
87.5°	16.1	17.0	17.0	17.0	17.0
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)