

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: P735678

Luminaire Tested: **22APR-34-B2750-W2D-CP125-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735678
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-34-B2750-W2D-CP125-2700K
Description: 2X2 3400 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 2700K CCT, AND CP125 LENS

Light Source: -
Ballast/Driver: -

Summary

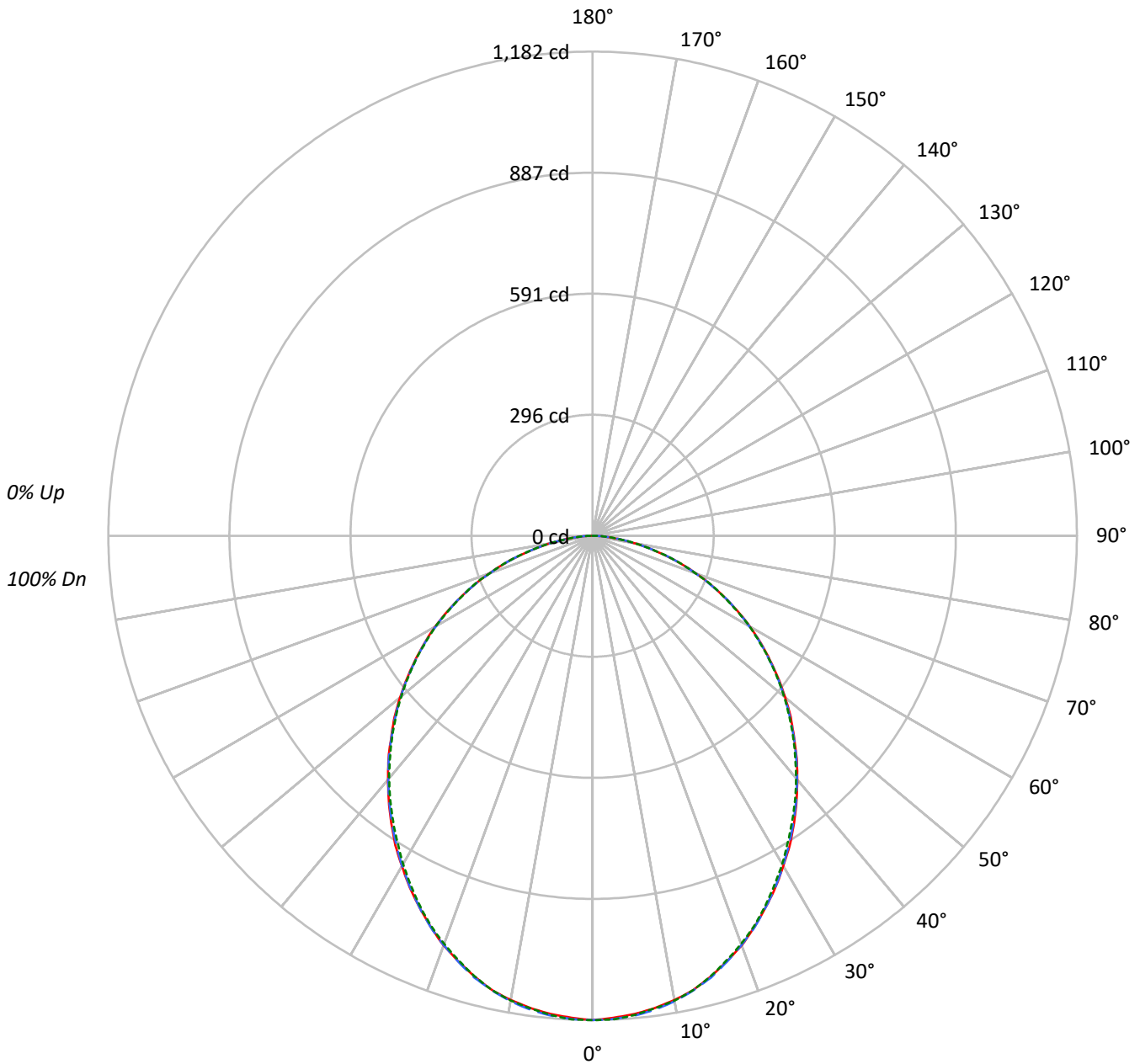
Lumens per Lamp: N/A
Luminaire Lumens: 3021.0 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 38
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°	3182	3182	3182
5°	3166	3177	3172
10°	3144	3153	3148
15°	3103	3110	3101
20°	3047	3045	3036
25°	2970	2970	2961
30°	2893	2890	2875
35°	2814	2806	2790
40°	2728	2725	2714
45°	2645	2642	2632
50°	2568	2557	2551
55°	2479	2467	2467
60°	2386	2378	2383
65°	2262	2267	2252
70°	2114	2101	2101
75°	1885	1893	1893
80°	1595	1595	1607
85°	1207	1207	1235



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.5	3.7
10°-20°	314.2	10.4
20°-30°	460.7	15.2
30°-40°	534.4	17.7
40°-50°	535.8	17.7
50°-60°	471.3	15.6
60°-70°	351.7	11.6
70°-80°	193.5	6.4
80°-90°	47.9	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°	886.4	29.3
0°-40°	1420.8	47.0
0°-60°	2427.9	80.4
0°-90°	3021.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3021.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1182	1182	1182	1182	1182	
5°	1172	1176	1176	1176	1174	111
15°	1114	1119	1116	1115	1113	314
25°	1000	1004	1000	1000	997	461
35°	857	858	854	852	849	536
45°	695	697	694	693	692	537
55°	528	529	526	527	526	473
65°	355	355	356	354	354	352
75°	181	182	182	180	182	193
85°	39	40	39	39	40	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1182.5	1182.5	1182.5	<i>1182.5</i>	1182.5
2.5°	<i>1177.5</i>	<i>1181.6</i>	<i>1180.8</i>	<i>1183.3</i>	<i>1181.6</i>
5°	1171.9	1176.0	1176.0	<i>1176.0</i>	1174.3
7.5°	1162.8	1166.9	1166.9	<i>1166.9</i>	1163.7
10°	1150.7	1154.8	1153.9	<i>1153.9</i>	1152.2
12.5°	1136.0	1138.4	1136.7	<i>1136.7</i>	1136.0
15°	1114.0	1118.8	1116.4	<i>1114.7</i>	1113.1
17.5°	1089.4	1094.3	1090.2	<i>1089.4</i>	1087.0
20°	1064.1	1067.3	1063.2	<i>1063.2</i>	1060.0
22.5°	1033.0	1036.2	1033.8	<i>1032.3</i>	1030.6
25°	1000.4	1004.5	1000.4	<i>999.5</i>	997.1
27.5°	966.9	970.1	966.0	<i>962.8</i>	961.2
30°	931.0	933.4	930.1	<i>927.7</i>	925.2
32.5°	895.8	895.8	892.5	<i>890.1</i>	886.9
35°	856.7	857.5	854.3	<i>851.7</i>	849.3
37.5°	817.5	819.1	815.8	<i>813.4</i>	811.7
40°	776.7	778.2	775.8	<i>773.3</i>	772.6
42.5°	737.4	737.4	735.9	<i>733.3</i>	731.8
45°	695.0	697.4	694.2	<i>693.3</i>	691.6
47.5°	655.7	655.7	652.5	<i>650.8</i>	650.8
50°	613.4	614.9	610.8	<i>610.0</i>	609.3
52.5°	570.8	570.0	569.1	<i>568.4</i>	567.6
55°	528.3	529.1	525.9	<i>526.7</i>	525.9
57.5°	485.9	485.1	484.2	<i>483.5</i>	482.7
60°	443.4	442.7	441.8	<i>441.0</i>	442.7
62.5°	399.3	400.1	397.7	<i>400.1</i>	396.9
65°	355.2	355.2	356.1	<i>354.4</i>	353.7
67.5°	312.8	312.8	311.1	<i>311.1</i>	314.4
70°	268.7	269.4	267.0	<i>270.3</i>	267.0
72.5°	225.4	226.2	225.4	<i>224.5</i>	226.2
75°	181.3	182.1	182.1	<i>180.4</i>	182.1
77.5°	141.3	142.1	141.3	<i>140.4</i>	141.3
80°	102.9	103.7	102.9	<i>102.0</i>	103.7
82.5°	68.5	69.4	68.5	<i>68.5</i>	69.4
85°	39.1	40.0	39.1	<i>39.1</i>	40.0
87.5°	15.5	16.4	16.4	<i>16.4</i>	16.4
90°	0.0	0.0	0.0	<i>0.0</i>	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)