

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: P735680

Luminaire Tested: **22APR-34-B2750-W2D-CP125-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735680
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-CP125-3500K
Description: 2X2 3400 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 3500K CCT, AND CP125 LENS

Light Source: -
Ballast/Driver: -

Summary

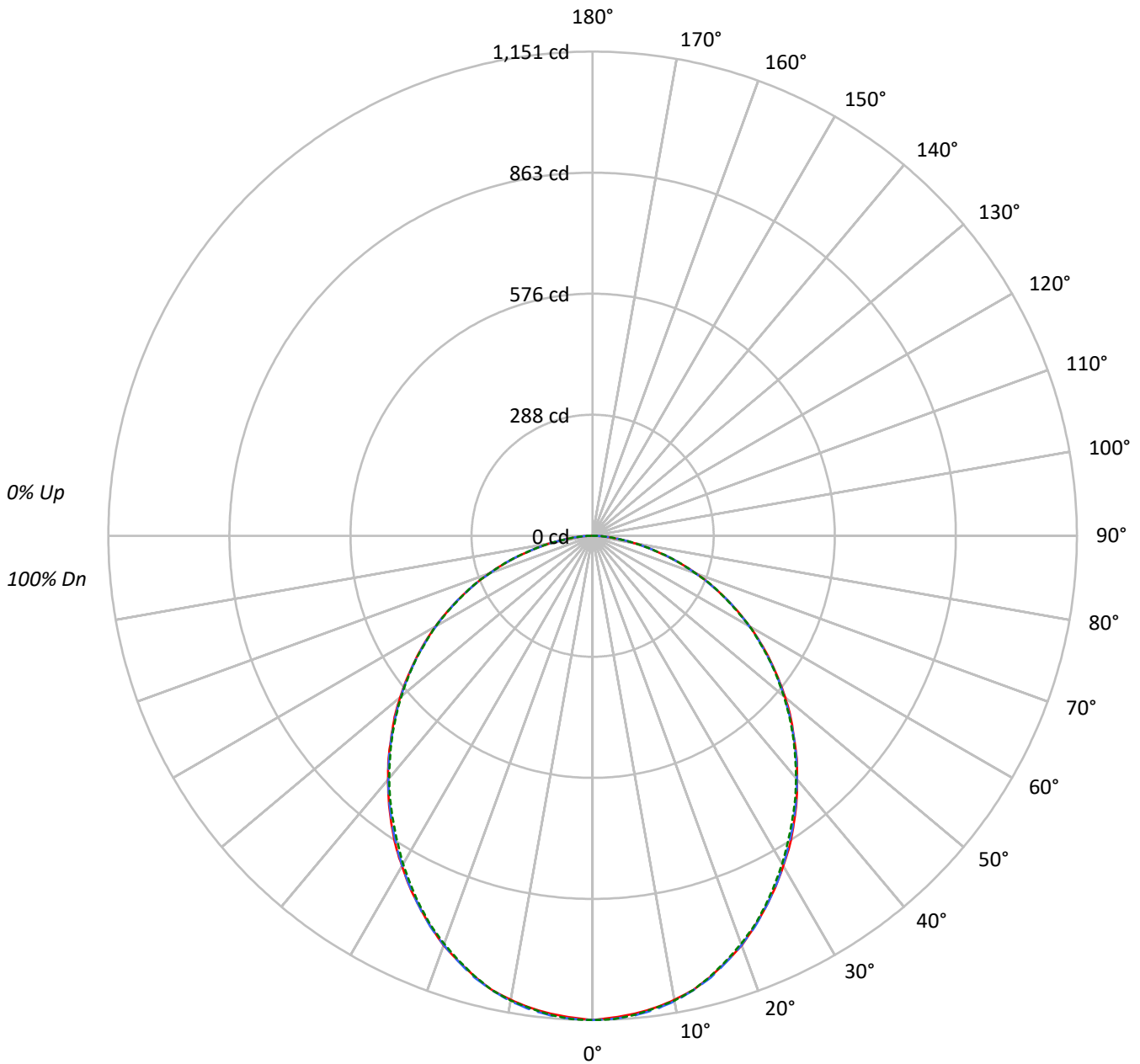
Lumens per Lamp: N/A
Luminaire Lumens: 2941.0 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	3098	3098	3098
5°	3082	3092	3088
10°	3061	3070	3065
15°	3021	3028	3019
20°	2966	2964	2955
25°	2892	2892	2882
30°	2816	2814	2799
35°	2740	2732	2716
40°	2656	2653	2642
45°	2575	2572	2562
50°	2500	2489	2483
55°	2413	2402	2402
60°	2323	2315	2319
65°	2202	2207	2192
70°	2058	2046	2046
75°	1835	1843	1843
80°	1551	1551	1565
85°	1176	1176	1201



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.5	3.7
10°-20°	305.9	10.4
20°-30°	448.5	15.2
30°-40°	520.3	17.7
40°-50°	521.7	17.7
50°-60°	458.8	15.6
60°-70°	342.4	11.6
70°-80°	188.4	6.4
80°-90°	46.6	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°	862.9	29.3
0°-40°	1383.2	47.0
0°-60°	2363.6	80.4
0°-90°	2941.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2941.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1151	1151	1151	1151	1151	
5°	1141	1145	1145	1145	1143	108
15°	1084	1089	1087	1085	1084	306
25°	974	978	974	973	971	449
35°	834	835	832	829	827	522
45°	677	679	676	675	673	523
55°	514	515	512	513	512	460
65°	346	346	347	345	344	343
75°	176	177	177	176	177	188
85°	38	39	38	38	39	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1151.2	1151.2	1151.2	<i>1151.2</i>	1151.2
2.5°	<i>1146.4</i>	<i>1150.3</i>	<i>1149.5</i>	<i>1152.0</i>	<i>1150.3</i>
5°	1140.8	1144.8	1144.8	<i>1144.8</i>	1143.2
7.5°	1132.0	1136.0	1136.0	<i>1136.0</i>	1132.9
10°	1120.2	1124.2	1123.4	<i>1123.4</i>	1121.7
12.5°	1105.9	1108.3	1106.6	<i>1106.6</i>	1105.9
15°	1084.5	1089.1	1086.8	<i>1085.1</i>	1083.6
17.5°	1060.5	1065.3	1061.3	<i>1060.5</i>	1058.2
20°	1035.9	1039.1	1035.1	<i>1035.1</i>	1031.9
22.5°	1005.6	1008.8	1006.5	<i>1004.9</i>	1003.3
25°	973.9	977.9	973.9	<i>973.0</i>	970.7
27.5°	941.3	944.4	940.4	<i>937.3</i>	935.8
30°	906.3	908.7	905.5	<i>903.2</i>	900.7
32.5°	872.1	872.1	868.9	<i>866.6</i>	863.4
35°	834.0	834.8	831.6	<i>829.2</i>	826.8
37.5°	795.9	797.4	794.2	<i>791.9</i>	790.2
40°	756.1	757.6	755.3	<i>752.8</i>	752.1
42.5°	717.9	717.9	716.4	<i>713.9</i>	712.4
45°	676.6	679.0	675.8	<i>675.0</i>	673.3
47.5°	638.4	638.4	635.2	<i>633.6</i>	633.6
50°	597.1	598.6	594.6	<i>593.8</i>	593.1
52.5°	555.7	554.9	554.1	<i>553.4</i>	552.5
55°	514.3	515.1	512.0	<i>512.8</i>	512.0
57.5°	473.0	472.2	471.4	<i>470.7</i>	469.9
60°	431.6	430.9	430.1	<i>429.3</i>	430.9
62.5°	388.7	389.5	387.2	<i>389.5</i>	386.4
65°	345.8	345.8	346.6	<i>345.0</i>	344.3
67.5°	304.5	304.5	302.9	<i>302.9</i>	306.1
70°	261.6	262.3	260.0	<i>263.1</i>	260.0
72.5°	219.4	220.2	219.4	<i>218.6</i>	220.2
75°	176.5	177.3	177.3	<i>175.7</i>	177.3
77.5°	137.6	138.4	137.6	<i>136.7</i>	137.6
80°	100.1	101.0	100.1	<i>99.3</i>	101.0
82.5°	66.7	67.5	66.7	<i>66.7</i>	67.5
85°	38.1	38.9	38.1	<i>38.1</i>	38.9
87.5°	15.1	16.0	16.0	<i>16.0</i>	16.0
90°	0.0	0.0	0.0	<i>0.0</i>	0.0



Report Generated By 670246072 / DESKTOP-50001EG





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







(END OF REPORT)