

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: P735699

Luminaire Tested: **22APR-38-B2750-W2D-CP250-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735699
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-CP250-3000K
Description: 2X2 3800 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 3000K CCT, AND CP250 LENS

Light Source: -
Ballast/Driver: -

Summary

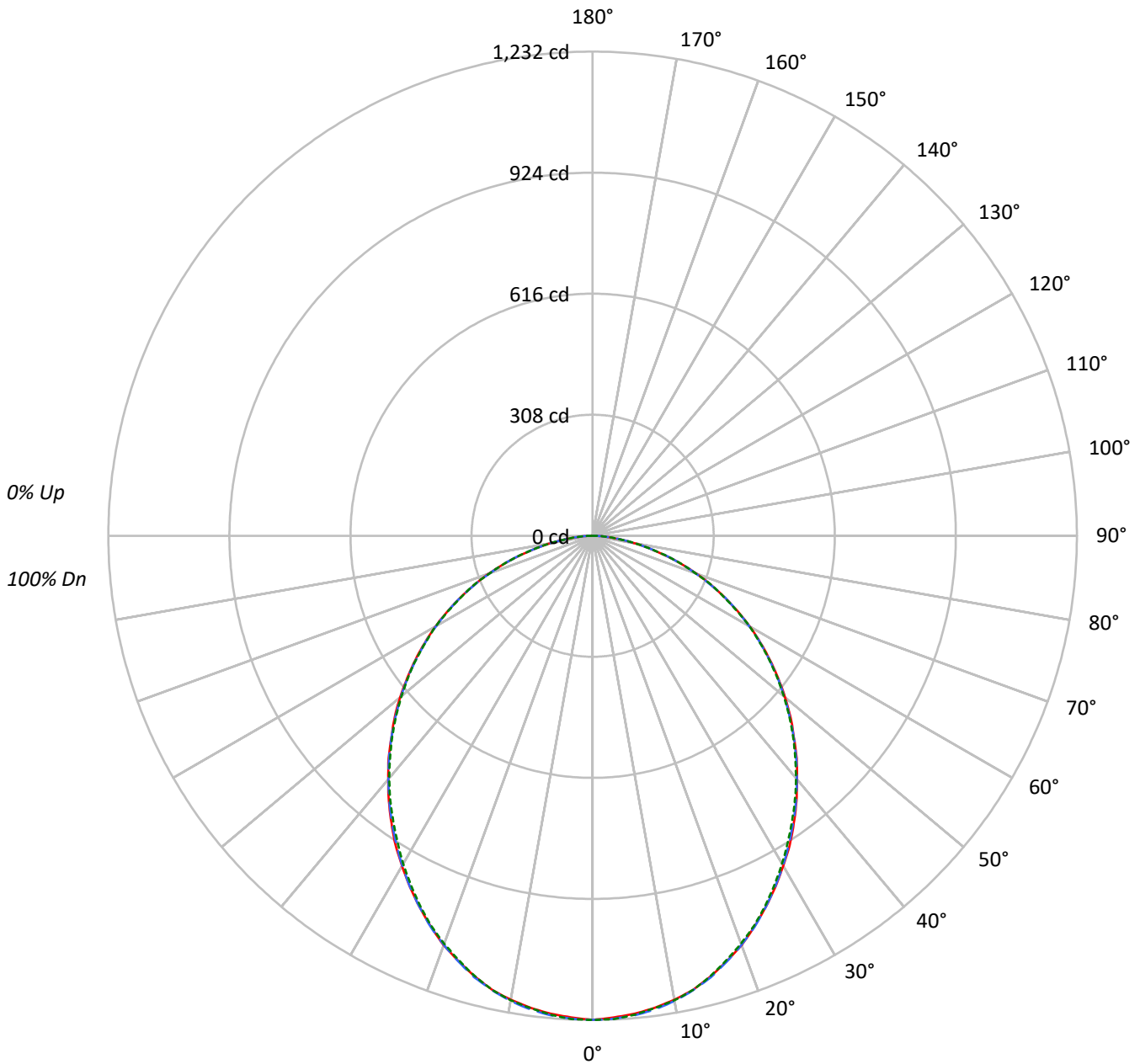
Lumens per Lamp: N/A
Luminaire Lumens: 3147.0 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P735699

CATALOG NUMBER: 22APR-38-B2750-W2D-CP250-3000K

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°	3315	3315	3315
5°	3298	3309	3304
10°	3275	3285	3280
15°	3233	3240	3230
20°	3174	3172	3162
25°	3094	3094	3084
30°	3013	3011	2995
35°	2932	2923	2906
40°	2842	2839	2827
45°	2755	2752	2742
50°	2675	2664	2657
55°	2582	2570	2570
60°	2486	2477	2482
65°	2356	2362	2346
70°	2202	2189	2189
75°	1963	1972	1972
80°	1661	1661	1674
85°	1260	1260	1288



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.1	3.7
10°-20°	327.3	10.4
20°-30°	479.9	15.2
30°-40°	556.7	17.7
40°-50°	558.2	17.7
50°-60°	490.9	15.6
60°-70°	366.3	11.6
70°-80°	201.6	6.4
80°-90°	49.9	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°	923.3	29.3
0°-40°	1480.1	47.0
0°-60°	2529.2	80.4
0°-90°	3147.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3147.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1232	1232	1232	1232	1232	
5°	1221	1225	1225	1225	1223	116
15°	1160	1165	1163	1161	1160	327
25°	1042	1046	1042	1041	1039	480
35°	892	893	890	887	885	558
45°	724	726	723	722	720	560
55°	550	551	548	549	548	492
65°	370	370	371	369	368	367
75°	189	190	190	188	190	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°	1231.8	1231.8	1231.8	<i>1231.8</i>	1231.8
2.5°	<i>1226.6</i>	<i>1230.9</i>	<i>1230.0</i>	<i>1232.7</i>	<i>1230.9</i>
5°	1220.8	1225.0	1225.0	<i>1225.0</i>	1223.3
7.5°	1211.3	1215.6	1215.6	<i>1215.6</i>	1212.2
10°	1198.7	1203.0	1202.1	<i>1202.1</i>	1200.3
12.5°	1183.4	1185.9	1184.1	<i>1184.1</i>	1183.4
15°	1160.4	1165.4	1162.9	<i>1161.1</i>	1159.5
17.5°	1134.8	1140.0	1135.7	<i>1134.8</i>	1132.3
20°	1108.5	1111.8	1107.6	<i>1107.6</i>	1104.2
22.5°	1076.1	1079.5	1077.0	<i>1075.3</i>	1073.6
25°	1042.1	1046.3	1042.1	<i>1041.2</i>	1038.7
27.5°	1007.2	1010.6	1006.3	<i>1002.9</i>	1001.3
30°	969.8	972.3	968.9	<i>966.4</i>	963.8
32.5°	933.2	933.2	929.8	<i>927.3</i>	923.9
35°	892.4	893.3	889.9	<i>887.2</i>	884.7
37.5°	851.6	853.2	849.9	<i>847.3</i>	845.6
40°	809.1	810.7	808.2	<i>805.5</i>	804.8
42.5°	768.2	768.2	766.5	<i>763.9</i>	762.3
45°	724.0	726.5	723.1	<i>722.2</i>	720.5
47.5°	683.1	683.1	679.7	<i>677.9</i>	677.9
50°	638.9	640.6	636.3	<i>635.4</i>	634.7
52.5°	594.6	593.7	592.9	<i>592.1</i>	591.2
55°	550.3	551.2	547.8	<i>548.7</i>	547.8
57.5°	506.2	505.3	504.4	<i>503.7</i>	502.8
60°	461.9	461.1	460.3	<i>459.4</i>	461.1
62.5°	415.9	416.8	414.3	<i>416.8</i>	413.4
65°	370.0	370.0	370.9	<i>369.1</i>	368.4
67.5°	325.9	325.9	324.1	<i>324.1</i>	327.5
70°	279.9	280.7	278.2	<i>281.6</i>	278.2
72.5°	234.8	235.6	234.8	<i>233.9</i>	235.6
75°	188.8	189.7	189.7	<i>188.0</i>	189.7
77.5°	147.2	148.1	147.2	<i>146.3</i>	147.2
80°	107.2	108.0	107.2	<i>106.3</i>	108.0
82.5°	71.4	72.3	71.4	<i>71.4</i>	72.3
85°	40.8	41.7	40.8	<i>40.8</i>	41.7
87.5°	16.2	17.1	17.1	<i>17.1</i>	17.1
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)