

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: P735683

Luminaire Tested: **22APR-34-B2750-W2D-CP250-2700K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P735683
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-CP250-2700K
Description: 2X2 3400 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 2700K CCT, AND CP250 LENS

Light Source: -
Ballast/Driver: -

Summary

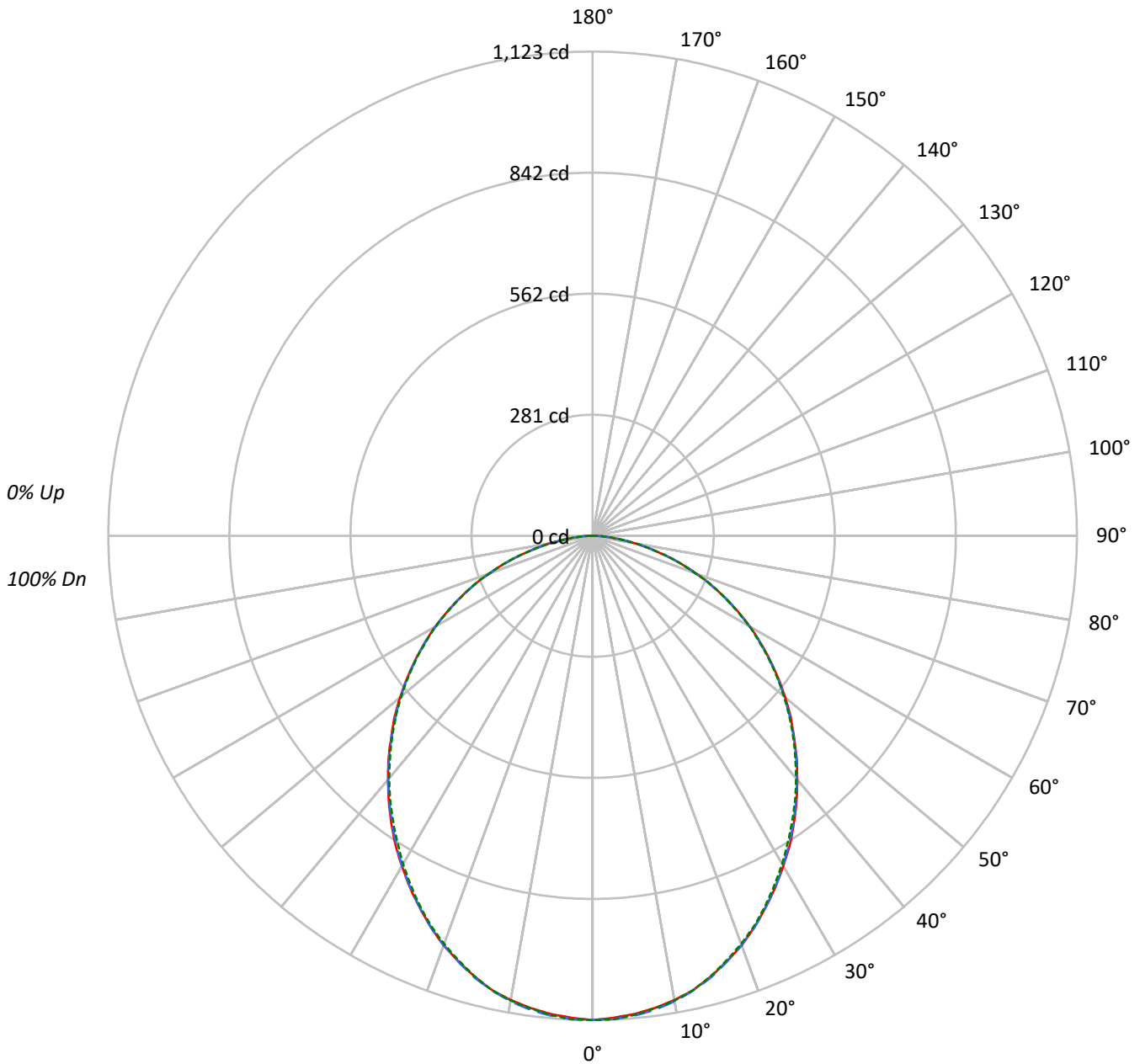
Lumens per Lamp: N/A
Luminaire Lumens: 2870.0 lumens
Efficiency: N/A
Efficacy: 75.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	3023	3023	3023
5°	3007	3018	3014
10°	2987	2996	2991
15°	2948	2955	2946
20°	2895	2893	2884
25°	2822	2822	2813
30°	2748	2746	2731
35°	2673	2666	2651
40°	2592	2589	2578
45°	2513	2510	2501
50°	2439	2429	2423
55°	2355	2344	2344
60°	2267	2259	2263
65°	2149	2154	2139
70°	2009	1996	1996
75°	1790	1799	1799
80°	1514	1514	1526
85°	1149	1149	1173



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.9	3.7
10°-20°	298.5	10.4
20°-30°	437.7	15.2
30°-40°	507.7	17.7
40°-50°	509.1	17.7
50°-60°	447.7	15.6
60°-70°	334.1	11.6
70°-80°	183.8	6.4
80°-90°	45.5	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°	842.1	29.3
0°-40°	1349.8	47.0
0°-60°	2306.6	80.4
0°-90°	2870.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2870.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1123	1123	1123	1123	1123	
5°	1113	1117	1117	1117	1116	106
15°	1058	1063	1061	1059	1058	298
25°	950	954	950	950	947	438
35°	814	815	812	809	807	509
45°	660	663	660	659	657	510
55°	502	503	500	500	500	449
65°	338	338	338	337	336	335
75°	172	173	173	171	173	184
85°	37	38	37	37	38	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1123.4	1123.4	1123.4	<i>1123.4</i>	1123.4
2.5°	<i>1118.7</i>	<i>1122.6</i>	<i>1121.8</i>	<i>1124.2</i>	<i>1122.6</i>
5°	1113.3	1117.2	1117.2	<i>1117.2</i>	1115.6
7.5°	1104.7	1108.6	1108.6	<i>1108.6</i>	1105.5
10°	1093.2	1097.1	1096.3	<i>1096.3</i>	1094.6
12.5°	1079.2	1081.5	1079.9	<i>1079.9</i>	1079.2
15°	1058.3	1062.8	1060.6	<i>1058.9</i>	1057.5
17.5°	1034.9	1039.6	1035.7	<i>1034.9</i>	1032.6
20°	1010.9	1014.0	1010.1	<i>1010.1</i>	1007.0
22.5°	981.4	984.4	982.2	<i>980.7</i>	979.1
25°	950.4	954.2	950.4	<i>949.5</i>	947.3
27.5°	918.5	921.6	917.7	<i>914.6</i>	913.2
30°	884.4	886.7	883.6	<i>881.4</i>	878.9
32.5°	851.0	851.0	847.9	<i>845.7</i>	842.6
35°	813.8	814.6	811.6	<i>809.1</i>	806.9
37.5°	776.7	778.1	775.0	<i>772.8</i>	771.2
40°	737.9	739.3	737.1	<i>734.6</i>	734.0
42.5°	700.5	700.5	699.1	<i>696.7</i>	695.2
45°	660.3	662.6	659.5	<i>658.7</i>	657.1
47.5°	623.0	623.0	619.9	<i>618.3</i>	618.3
50°	582.7	584.2	580.3	<i>579.5</i>	578.8
52.5°	542.3	541.5	540.7	<i>540.0</i>	539.2
55°	501.9	502.7	499.6	<i>500.4</i>	499.6
57.5°	461.6	460.8	460.0	<i>459.3</i>	458.5
60°	421.2	420.5	419.7	<i>418.9</i>	420.5
62.5°	379.3	380.1	377.9	<i>380.1</i>	377.1
65°	337.5	337.5	338.3	<i>336.7</i>	336.0
67.5°	297.2	297.2	295.6	<i>295.6</i>	298.7
70°	255.3	256.0	253.7	<i>256.8</i>	253.7
72.5°	214.1	214.9	214.1	<i>213.3</i>	214.9
75°	172.2	173.0	173.0	<i>171.4</i>	173.0
77.5°	134.2	135.0	134.2	<i>133.4</i>	134.2
80°	97.7	98.5	97.7	<i>96.9</i>	98.5
82.5°	65.1	65.9	65.1	<i>65.1</i>	65.9
85°	37.2	38.0	37.2	<i>37.2</i>	38.0
87.5°	14.8	15.6	15.6	<i>15.6</i>	15.6
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)