

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: P735701

Luminaire Tested: **22APR-38-B2750-W2D-CP250-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735701
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-CP250-4000K
Description: 2X2 3800 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 4000K CCT, AND CP250 LENS

Light Source: -
Ballast/Driver: -

Summary

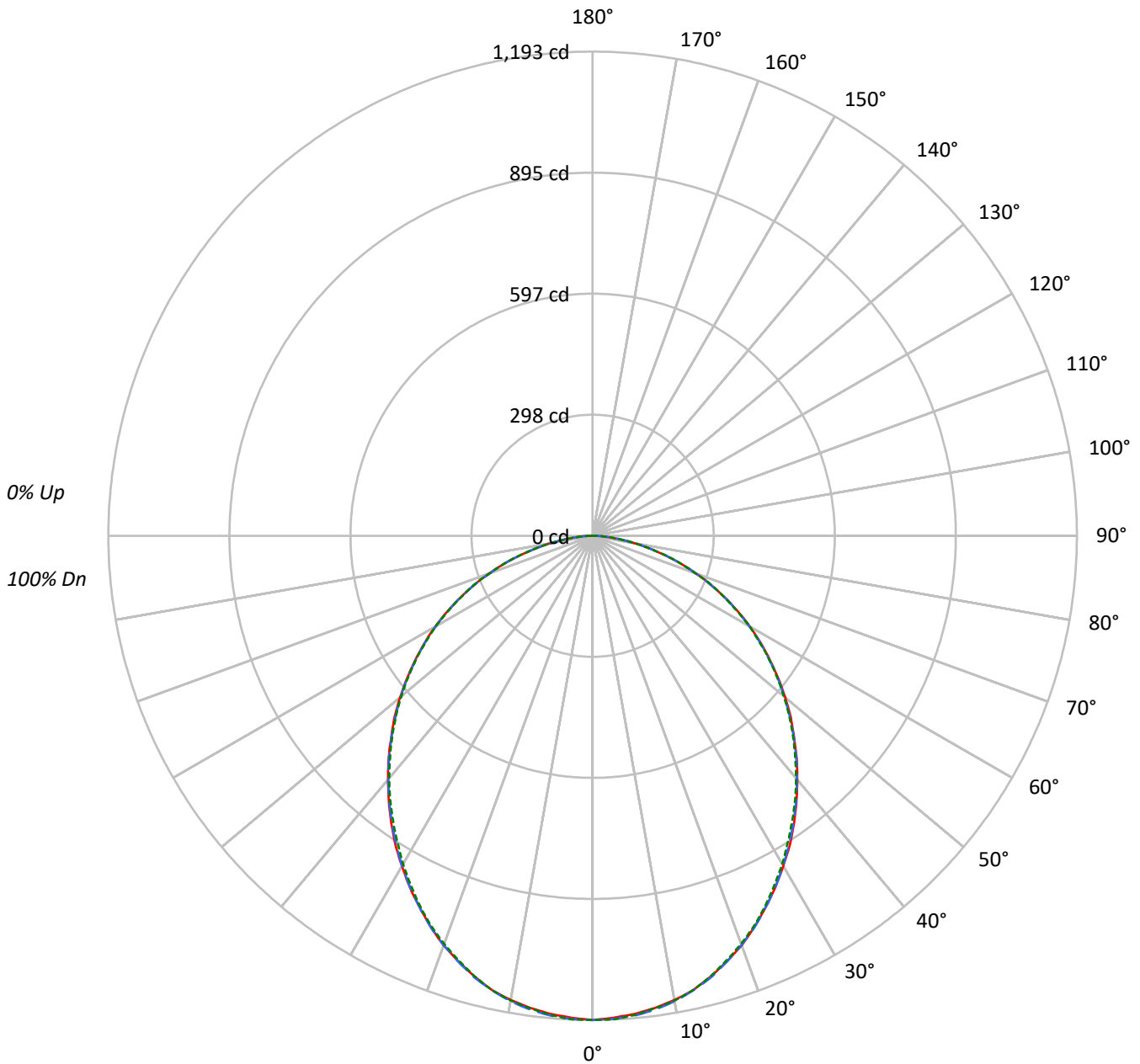
Lumens per Lamp: N/A
Luminaire Lumens: 3049.0 lumens
Efficiency: N/A
Efficacy: 70.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	3211	3211	3211
5°	3195	3206	3202
10°	3174	3182	3178
15°	3132	3139	3130
20°	3075	3073	3064
25°	2998	2998	2988
30°	2920	2917	2902
35°	2840	2832	2816
40°	2754	2751	2739
45°	2670	2666	2656
50°	2591	2581	2574
55°	2502	2490	2490
60°	2408	2400	2405
65°	2283	2288	2273
70°	2134	2120	2120
75°	1903	1911	1911
80°	1609	1609	1623
85°	1220	1220	1247



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.5	3.7
10°-20°	317.1	10.4
20°-30°	465.0	15.2
30°-40°	539.4	17.7
40°-50°	540.8	17.7
50°-60°	475.6	15.6
60°-70°	354.9	11.6
70°-80°	195.3	6.4
80°-90°	48.3	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°	894.6	29.3
0°-40°	1434.0	47.0
0°-60°	2450.4	80.4
0°-90°	3049.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3049.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1193	1193	1193	1193	1193	
5°	1183	1187	1187	1187	1185	112
15°	1124	1129	1127	1125	1123	317
25°	1010	1014	1010	1009	1006	465
35°	865	866	862	860	857	541
45°	702	704	701	700	698	542
55°	533	534	531	532	531	477
65°	358	358	359	358	357	355
75°	183	184	184	182	184	195
85°	40	40	40	40	40	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1193.4	1193.4	1193.4	<i>1193.4</i>	1193.4
2.5°	<i>1188.4</i>	<i>1192.6</i>	<i>1191.7</i>	<i>1194.3</i>	<i>1192.6</i>
5°	1182.7	1186.9	1186.9	<i>1186.9</i>	1185.2
7.5°	1173.6	1177.8	1177.8	<i>1177.8</i>	1174.5
10°	1161.4	1165.5	1164.6	<i>1164.6</i>	1162.9
12.5°	1146.5	1148.9	1147.2	<i>1147.2</i>	1146.5
15°	1124.3	1129.1	1126.7	<i>1125.0</i>	1123.4
17.5°	1099.5	1104.5	1100.3	<i>1099.5</i>	1097.0
20°	1073.9	1077.2	1073.1	<i>1073.1</i>	1069.8
22.5°	1042.6	1045.8	1043.4	<i>1041.9</i>	1040.1
25°	1009.6	1013.8	1009.6	<i>1008.8</i>	1006.3
27.5°	975.8	979.1	975.0	<i>971.7</i>	970.1
30°	939.6	942.0	938.8	<i>936.3</i>	933.8
32.5°	904.1	904.1	900.8	<i>898.4</i>	895.1
35°	864.6	865.5	862.2	<i>859.6</i>	857.2
37.5°	825.1	826.7	823.4	<i>821.0</i>	819.3
40°	783.9	785.5	783.0	<i>780.5</i>	779.7
42.5°	744.2	744.2	742.7	<i>740.1</i>	738.5
45°	701.5	703.9	700.6	<i>699.7</i>	698.0
47.5°	661.8	661.8	658.5	<i>656.8</i>	656.8
50°	619.0	620.6	616.5	<i>615.6</i>	614.9
52.5°	576.1	575.3	574.4	<i>573.7</i>	572.8
55°	533.2	534.0	530.8	<i>531.6</i>	530.8
57.5°	490.4	489.6	488.7	<i>488.0</i>	487.1
60°	447.5	446.8	445.9	<i>445.1</i>	446.8
62.5°	403.0	403.8	401.4	<i>403.8</i>	400.6
65°	358.5	358.5	359.4	<i>357.6</i>	356.9
67.5°	315.7	315.7	314.0	<i>314.0</i>	317.3
70°	271.2	271.9	269.5	<i>272.8</i>	269.5
72.5°	227.5	228.3	227.5	<i>226.6</i>	228.3
75°	183.0	183.8	183.8	<i>182.1</i>	183.8
77.5°	142.6	143.5	142.6	<i>141.7</i>	142.6
80°	103.8	104.7	103.8	<i>103.0</i>	104.7
82.5°	69.2	70.0	69.2	<i>69.2</i>	70.0
85°	39.5	40.4	39.5	<i>39.5</i>	40.4
87.5°	15.7	16.5	16.5	<i>16.5</i>	16.5
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)