

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: P735694

Luminaire Tested: **22APR-38-B2750-W2D-CP125-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735694
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-CP125-3000K
Description: 2X2 3800 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 3000K CCT, AND CP125 LENS

Light Source: -
Ballast/Driver: -

Summary

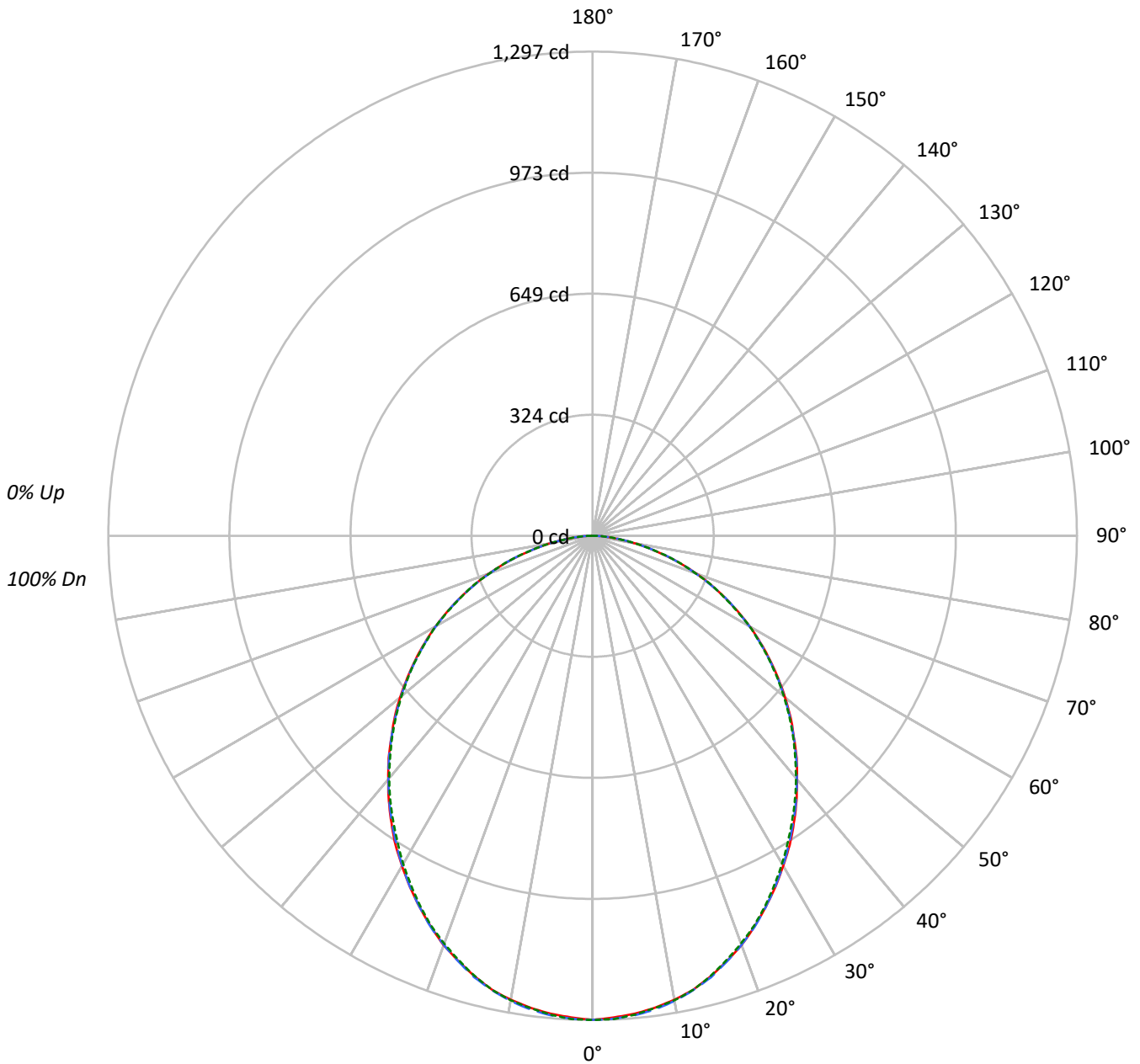
Lumens per Lamp: N/A
Luminaire Lumens: 3313.0 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	3490	3490	3490
5°	3472	3484	3479
10°	3448	3458	3453
15°	3403	3411	3401
20°	3342	3339	3329
25°	3257	3257	3247
30°	3173	3169	3153
35°	3086	3077	3060
40°	2992	2989	2976
45°	2901	2897	2887
50°	2816	2804	2797
55°	2718	2706	2706
60°	2617	2608	2613
65°	2480	2486	2469
70°	2319	2305	2305
75°	2067	2076	2076
80°	1748	1748	1762
85°	1325	1325	1355



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.3	3.7
10°-20°	344.6	10.4
20°-30°	505.2	15.2
30°-40°	586.1	17.7
40°-50°	587.6	17.7
50°-60°	516.8	15.6
60°-70°	385.7	11.6
70°-80°	212.2	6.4
80°-90°	52.5	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°	972.0	29.3
0°-40°	1558.1	47.0
0°-60°	2662.6	80.4
0°-90°	3313.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3313.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1297	1297	1297	1297	1297	
5°	1285	1290	1290	1290	1288	122
15°	1222	1227	1224	1222	1221	344
25°	1097	1102	1097	1096	1094	505
35°	940	940	937	934	931	588
45°	762	765	761	760	758	589
55°	579	580	577	578	577	518
65°	390	390	390	389	388	386
75°	199	200	200	198	200	212
85°	43	44	43	43	44	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1296.8	1296.8	1296.8	1296.8	1296.8
2.5°	1291.4	1295.8	1294.9	1297.7	1295.8
5°	1285.2	1289.6	1289.6	1289.6	1287.8
7.5°	1275.2	1279.7	1279.7	1279.7	1276.2
10°	1261.9	1266.4	1265.5	1265.5	1263.6
12.5°	1245.8	1248.4	1246.6	1246.6	1245.8
15°	1221.6	1226.9	1224.3	1222.4	1220.7
17.5°	1194.7	1200.1	1195.6	1194.7	1192.0
20°	1166.9	1170.5	1166.0	1166.0	1162.4
22.5°	1132.8	1136.4	1133.8	1132.1	1130.2
25°	1097.0	1101.5	1097.0	1096.1	1093.5
27.5°	1060.3	1063.9	1059.4	1055.8	1054.1
30°	1021.0	1023.6	1020.0	1017.4	1014.6
32.5°	982.4	982.4	978.8	976.2	972.6
35°	939.5	940.4	936.8	934.0	931.4
37.5°	896.5	898.2	894.7	892.0	890.2
40°	851.8	853.5	850.8	848.0	847.3
42.5°	808.7	808.7	807.0	804.2	802.5
45°	762.2	764.8	761.3	760.3	758.5
47.5°	719.1	719.1	715.6	713.7	713.7
50°	672.6	674.3	669.8	668.9	668.1
52.5°	626.0	625.1	624.1	623.4	622.4
55°	579.4	580.3	576.7	577.7	576.7
57.5°	532.9	531.9	531.0	530.2	529.3
60°	486.2	485.5	484.5	483.6	485.5
62.5°	437.9	438.8	436.2	438.8	435.3
65°	389.5	389.5	390.5	388.6	387.8
67.5°	343.1	343.1	341.2	341.2	344.8
70°	294.7	295.5	292.9	296.4	292.9
72.5°	247.1	248.1	247.1	246.2	248.1
75°	198.8	199.7	199.7	197.9	199.7
77.5°	154.9	155.9	154.9	154.0	154.9
80°	112.8	113.7	112.8	111.9	113.7
82.5°	75.2	76.1	75.2	75.2	76.1
85°	42.9	43.9	42.9	42.9	43.9
87.5°	17.0	18.0	18.0	18.0	18.0
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





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







(END OF REPORT)