

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: P735690

Luminaire Tested: **22APR-38-B2750-W2D-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735690
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-3500K
Description: 2X2 3800 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 3500K CCT

Light Source: -
Ballast/Driver: -

Summary

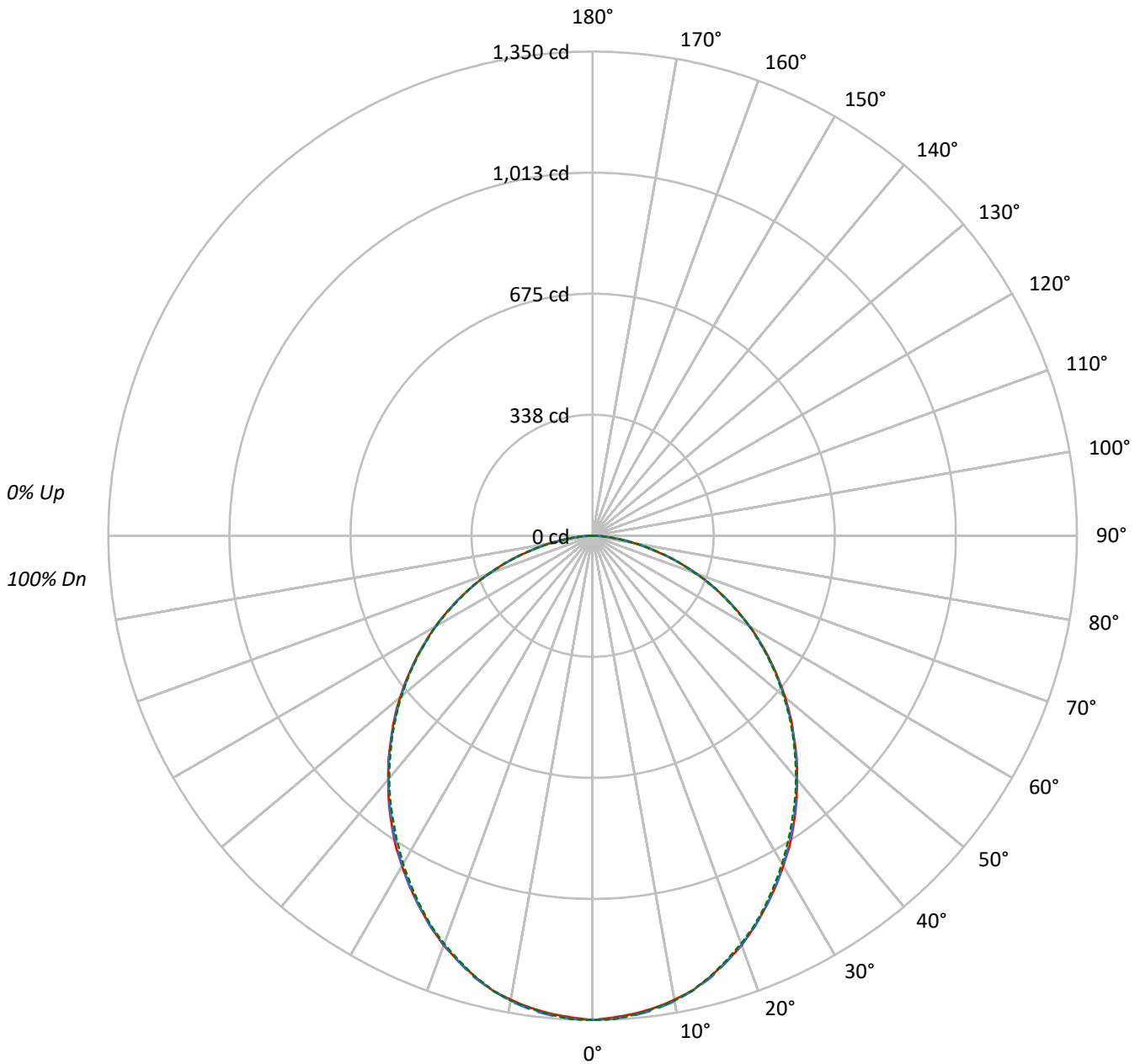
Lumens per Lamp: N/A
Luminaire Lumens: 3449.0 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

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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°	3633	3633	3633
5°	3614	3627	3622
10°	3590	3600	3595
15°	3543	3551	3540
20°	3479	3476	3466
25°	3391	3391	3380
30°	3303	3300	3282
35°	3213	3204	3185
40°	3115	3112	3098
45°	3020	3016	3005
50°	2931	2919	2912
55°	2829	2817	2817
60°	2724	2715	2720
65°	2582	2588	2571
70°	2414	2399	2399
75°	2152	2162	2162
80°	1819	1819	1835
85°	1380	1380	1411



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.3	3.7
10°-20°	358.7	10.4
20°-30°	526.0	15.2
30°-40°	610.2	17.7
40°-50°	611.7	17.7
50°-60°	538.0	15.6
60°-70°	401.5	11.6
70°-80°	220.9	6.4
80°-90°	54.7	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°	1012.0	29.3
0°-40°	1622.1	47.0
0°-60°	2771.9	80.4
0°-90°	3449.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3449.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1350	1350	1350	1350	1350	
5°	1338	1343	1343	1343	1341	127
15°	1272	1277	1274	1273	1271	358
25°	1142	1147	1142	1141	1138	526
35°	978	979	975	972	970	612
45°	794	796	792	792	790	613
55°	603	604	600	601	600	539
65°	406	406	406	405	404	402
75°	207	208	208	206	208	221
85°	45	46	45	45	46	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1350.0	1350.0	1350.0	1350.0	1350.0
2.5°	1344.4	1349.0	1348.1	1351.0	1349.0
5°	1337.9	1342.6	1342.6	1342.6	1340.7
7.5°	1327.6	1332.3	1332.3	1332.3	1328.6
10°	1313.7	1318.4	1317.4	1317.4	1315.5
12.5°	1296.9	1299.7	1297.7	1297.7	1296.9
15°	1271.8	1277.3	1274.5	1272.6	1270.8
17.5°	1243.7	1249.3	1244.7	1243.7	1241.0
20°	1214.8	1218.5	1213.9	1213.9	1210.2
22.5°	1179.3	1183.1	1180.3	1178.5	1176.6
25°	1142.1	1146.8	1142.1	1141.1	1138.4
27.5°	1103.8	1107.6	1102.9	1099.2	1097.4
30°	1062.9	1065.6	1061.9	1059.2	1056.3
32.5°	1022.7	1022.7	1019.0	1016.3	1012.5
35°	978.0	979.0	975.3	972.4	969.6
37.5°	933.3	935.1	931.4	928.7	926.7
40°	886.7	888.5	885.8	882.9	882.0
42.5°	841.9	841.9	840.1	837.2	835.4
45°	793.5	796.2	792.5	791.6	789.6
47.5°	748.6	748.6	744.9	743.0	743.0
50°	700.2	702.0	697.3	696.4	695.6
52.5°	651.7	650.7	649.8	649.0	648.0
55°	603.1	604.1	600.4	601.4	600.4
57.5°	554.7	553.8	552.8	552.0	551.0
60°	506.2	505.4	504.4	503.4	505.4
62.5°	455.9	456.8	454.1	456.8	453.1
65°	405.5	405.5	406.5	404.6	403.8
67.5°	357.1	357.1	355.2	355.2	358.9
70°	306.8	307.6	304.9	308.6	304.9
72.5°	257.3	258.3	257.3	256.3	258.3
75°	207.0	207.9	207.9	206.0	207.9
77.5°	161.3	162.3	161.3	160.3	161.3
80°	117.4	118.4	117.4	116.5	118.4
82.5°	78.2	79.2	78.2	78.2	79.2
85°	44.7	45.7	44.7	44.7	45.7
87.5°	17.7	18.7	18.7	18.7	18.7
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)