

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: P735693

Luminaire Tested: **22APR-38-B2750-W2D-CP125-2700K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P735693
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-CP125-2700K
Description: 2X2 3800 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 2700K CCT, AND CP125 LENS

Light Source: -
Ballast/Driver: -

Summary

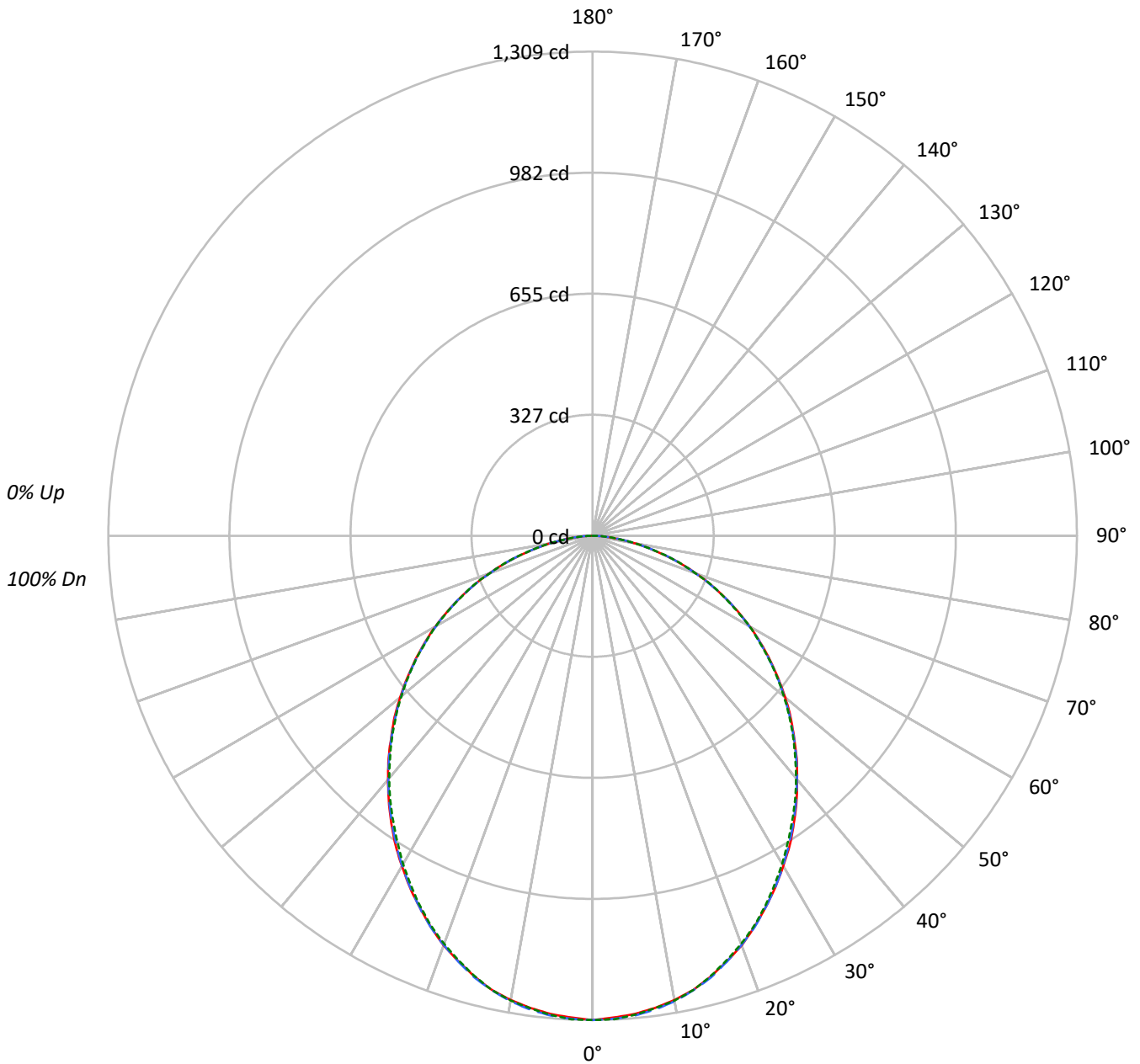
Lumens per Lamp: N/A
Luminaire Lumens: 3345.0 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	3523	3523	3523
5°	3505	3517	3512
10°	3481	3491	3486
15°	3436	3444	3434
20°	3374	3371	3361
25°	3289	3289	3278
30°	3203	3200	3183
35°	3116	3107	3089
40°	3021	3018	3005
45°	2929	2925	2914
50°	2843	2831	2824
55°	2745	2732	2732
60°	2642	2633	2638
65°	2504	2510	2493
70°	2341	2327	2327
75°	2087	2097	2097
80°	1765	1765	1779
85°	1337	1337	1368



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.5	3.7
10°-20°	347.9	10.4
20°-30°	510.1	15.2
30°-40°	591.8	17.7
40°-50°	593.3	17.7
50°-60°	521.8	15.6
60°-70°	389.4	11.6
70°-80°	214.3	6.4
80°-90°	53.0	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°	981.4	29.3
0°-40°	1573.2	47.0
0°-60°	2688.3	80.4
0°-90°	3345.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3345.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1309	1309	1309	1309	1309	
5°	1298	1302	1302	1302	1300	123
15°	1233	1239	1236	1234	1232	347
25°	1108	1112	1108	1107	1104	510
35°	948	950	946	943	940	593
45°	770	772	769	768	766	595
55°	585	586	582	583	582	523
65°	393	393	394	392	392	390
75°	201	202	202	200	202	214
85°	43	44	43	43	44	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1309.3	1309.3	1309.3	1309.3	1309.3
2.5°	1303.8	1308.4	1307.4	1310.2	1308.4
5°	1297.6	1302.1	1302.1	1302.1	1300.2
7.5°	1287.6	1292.1	1292.1	1292.1	1288.5
10°	1274.1	1278.6	1277.7	1277.7	1275.8
12.5°	1257.8	1260.5	1258.6	1258.6	1257.8
15°	1233.4	1238.7	1236.1	1234.2	1232.5
17.5°	1206.2	1211.7	1207.1	1206.2	1203.5
20°	1178.2	1181.8	1177.3	1177.3	1173.7
22.5°	1143.8	1147.4	1144.7	1143.0	1141.1
25°	1107.6	1112.2	1107.6	1106.7	1104.0
27.5°	1070.6	1074.2	1069.6	1066.0	1064.3
30°	1030.8	1033.5	1029.9	1027.2	1024.4
32.5°	991.9	991.9	988.3	985.6	982.0
35°	948.5	949.5	945.9	943.1	940.4
37.5°	905.2	906.9	903.3	900.7	898.8
40°	860.0	861.7	859.0	856.2	855.4
42.5°	816.5	816.5	814.8	812.0	810.2
45°	769.6	772.2	768.6	767.7	765.8
47.5°	726.1	726.1	722.5	720.6	720.6
50°	679.1	680.9	676.3	675.4	674.6
52.5°	632.0	631.1	630.2	629.4	628.4
55°	585.0	585.9	582.3	583.2	582.3
57.5°	538.0	537.1	536.1	535.4	534.4
60°	490.9	490.1	489.2	488.3	490.1
62.5°	442.1	443.1	440.4	443.1	439.5
65°	393.3	393.3	394.2	392.4	391.6
67.5°	346.4	346.4	344.5	344.5	348.1
70°	297.6	298.3	295.7	299.3	295.7
72.5°	249.5	250.5	249.5	248.6	250.5
75°	200.7	201.7	201.7	199.8	201.7
77.5°	156.4	157.4	156.4	155.5	156.4
80°	113.9	114.8	113.9	113.0	114.8
82.5°	75.9	76.8	75.9	75.9	76.8
85°	43.3	44.3	43.3	43.3	44.3
87.5°	17.2	18.1	18.1	18.1	18.1
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)