

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: P735692

Luminaire Tested: **22APR-38-B2750-W2D-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735692
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-5000K
Description: 2X2 3800 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 5000K CCT

Light Source: -
Ballast/Driver: -

Summary

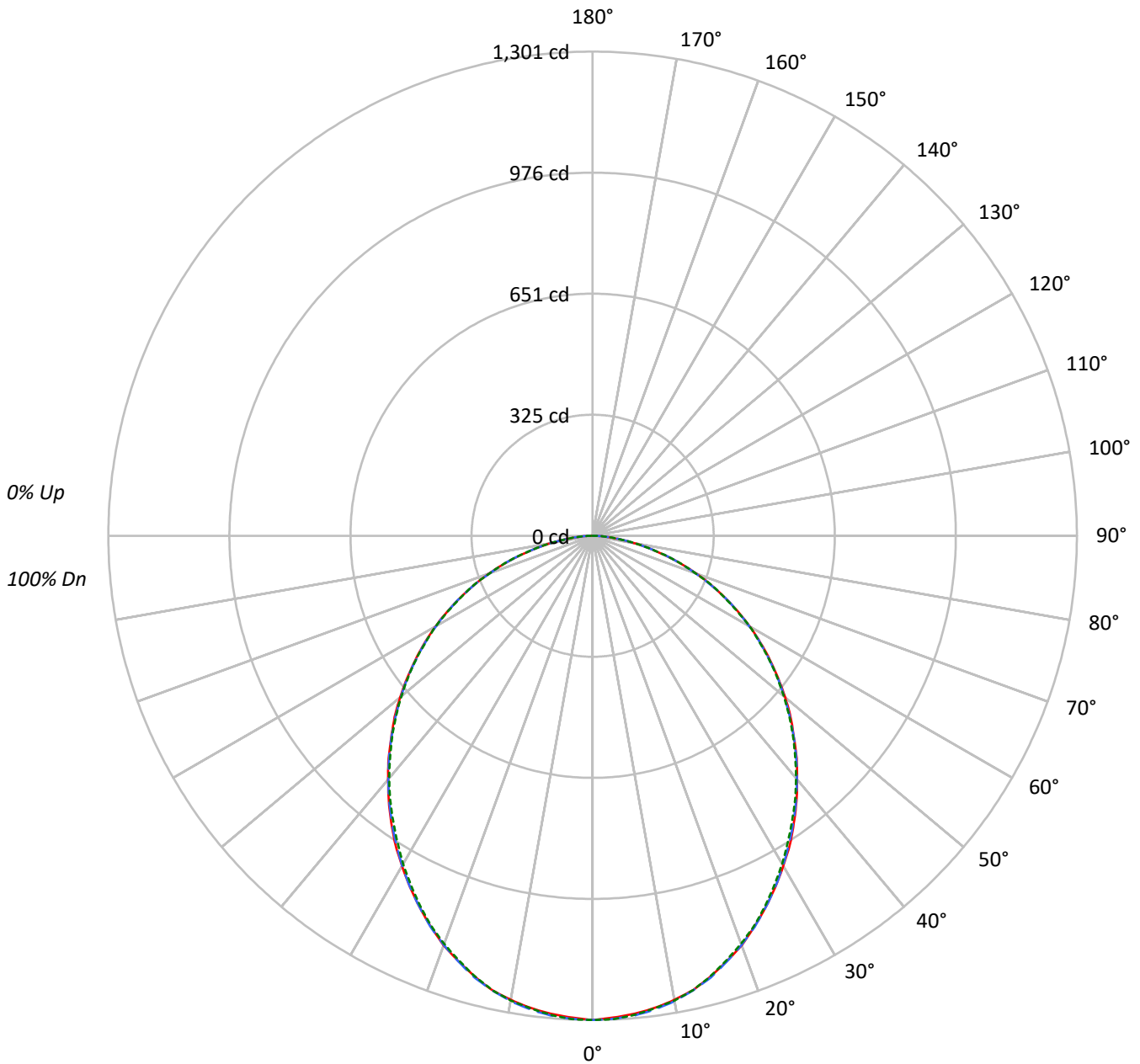
Lumens per Lamp: N/A
Luminaire Lumens: 3324.0 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	3501	3501	3501
5°	3483	3495	3490
10°	3460	3469	3464
15°	3415	3422	3412
20°	3353	3350	3340
25°	3268	3268	3257
30°	3183	3180	3163
35°	3097	3088	3070
40°	3002	2999	2986
45°	2910	2907	2896
50°	2825	2814	2807
55°	2727	2715	2715
60°	2625	2616	2622
65°	2488	2495	2478
70°	2327	2312	2312
75°	2074	2084	2084
80°	1754	1754	1768
85°	1331	1331	1359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.7	3.7
10°-20°	345.7	10.4
20°-30°	506.9	15.2
30°-40°	588.0	17.7
40°-50°	589.6	17.7
50°-60°	518.5	15.6
60°-70°	386.9	11.6
70°-80°	212.9	6.4
80°-90°	52.7	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°	975.3	29.3
0°-40°	1563.3	47.0
0°-60°	2671.4	80.4
0°-90°	3324.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3324.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1301	1301	1301	1301	1301	
5°	1289	1294	1294	1294	1292	122
15°	1226	1231	1228	1226	1225	345
25°	1101	1105	1101	1100	1097	507
35°	943	944	940	937	934	590
45°	765	767	764	763	761	591
55°	581	582	579	580	579	520
65°	391	391	392	390	389	387
75°	200	200	200	198	200	213
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°	1301.1	1301.1	1301.1	<i>1301.1</i>	1301.1
2.5°	<i>1295.6</i>	<i>1300.1</i>	<i>1299.2</i>	<i>1302.0</i>	<i>1300.1</i>
5°	1289.4	1293.9	1293.9	<i>1293.9</i>	1292.1
7.5°	1279.5	1284.0	1284.0	<i>1284.0</i>	1280.4
10°	1266.1	1270.6	1269.7	<i>1269.7</i>	1267.8
12.5°	1249.9	1252.6	1250.7	<i>1250.7</i>	1249.9
15°	1225.7	1231.0	1228.3	<i>1226.5</i>	1224.7
17.5°	1198.6	1204.1	1199.6	<i>1198.6</i>	1196.0
20°	1170.8	1174.4	1169.9	<i>1169.9</i>	1166.3
22.5°	1136.6	1140.2	1137.5	<i>1135.8</i>	1134.0
25°	1100.7	1105.2	1100.7	<i>1099.8</i>	1097.1
27.5°	1063.8	1067.4	1062.9	<i>1059.3</i>	1057.6
30°	1024.4	1027.0	1023.4	<i>1020.8</i>	1018.0
32.5°	985.6	985.6	982.1	<i>979.4</i>	975.8
35°	942.6	943.5	939.9	<i>937.1</i>	934.5
37.5°	899.5	901.2	897.7	<i>895.0</i>	893.1
40°	854.6	856.3	853.7	<i>850.9</i>	850.1
42.5°	811.4	811.4	809.7	<i>806.9</i>	805.1
45°	764.7	767.4	763.8	<i>762.9</i>	761.0
47.5°	721.5	721.5	717.9	<i>716.1</i>	716.1
50°	674.9	676.6	672.1	<i>671.1</i>	670.4
52.5°	628.1	627.1	626.2	<i>625.4</i>	624.5
55°	581.3	582.2	578.6	<i>579.6</i>	578.6
57.5°	534.6	533.7	532.8	<i>532.0</i>	531.1
60°	487.8	487.1	486.1	<i>485.2</i>	487.1
62.5°	439.3	440.3	437.6	<i>440.3</i>	436.7
65°	390.8	390.8	391.8	<i>389.9</i>	389.1
67.5°	344.2	344.2	342.3	<i>342.3</i>	345.9
70°	295.7	296.5	293.8	<i>297.4</i>	293.8
72.5°	248.0	248.9	248.0	<i>247.0</i>	248.9
75°	199.5	200.4	200.4	<i>198.5</i>	200.4
77.5°	155.5	156.4	155.5	<i>154.5</i>	155.5
80°	113.2	114.1	113.2	<i>112.2</i>	114.1
82.5°	75.4	76.3	75.4	<i>75.4</i>	76.3
85°	43.1	44.0	43.1	<i>43.1</i>	44.0
87.5°	17.1	18.0	18.0	<i>18.0</i>	18.0
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)