

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: METALUX

Report Number: P732300

Luminaire Tested: **24CZ2-50-RDP-B2750-W2D-5000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732300  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P274775)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-50-RDP-B2750-W2D-5000K  
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RDP LENS  
  
Light Source: -  
Ballast/Driver: -

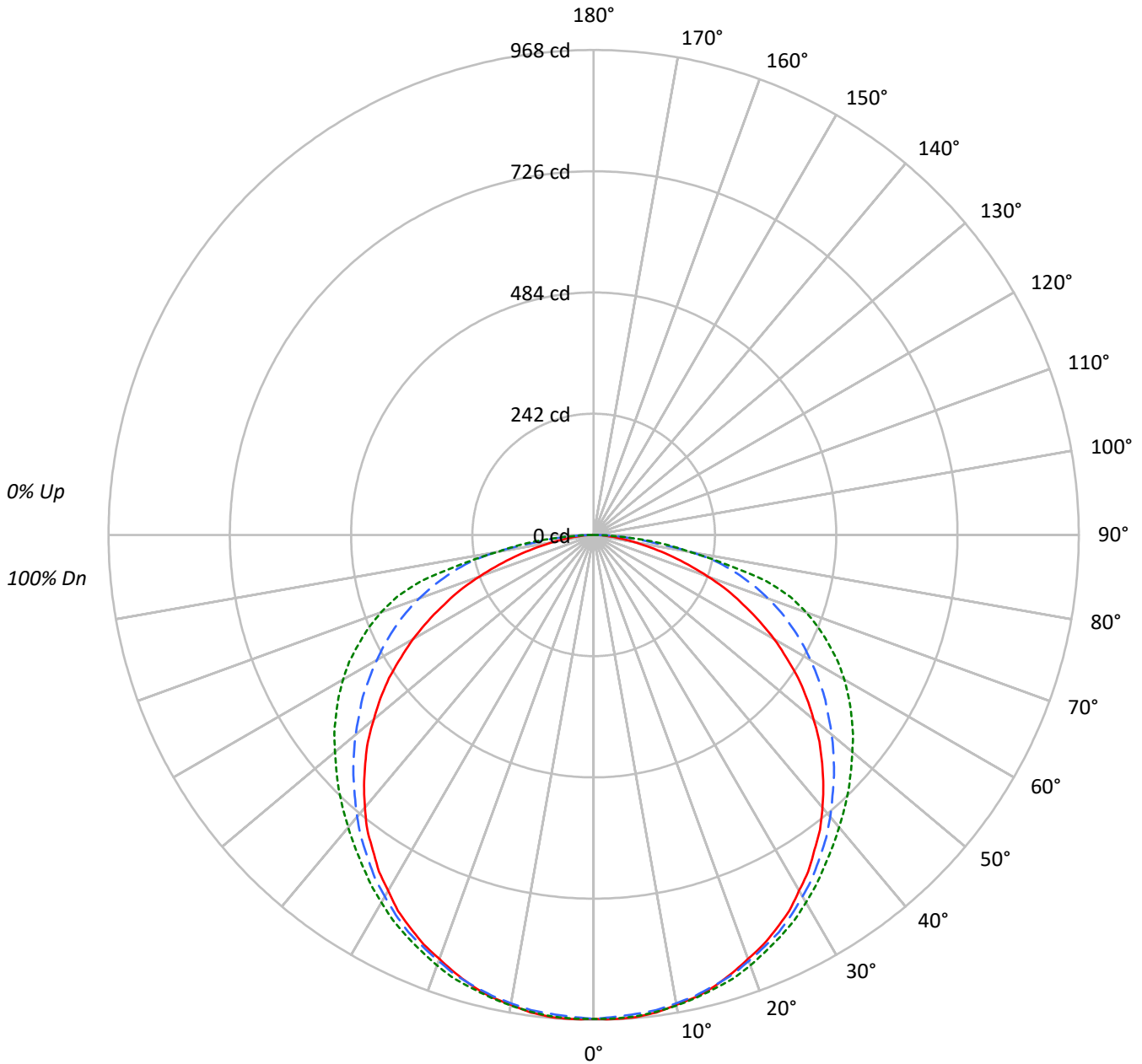
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3072.0 lumens  
Efficiency: N/A  
Efficacy: 76.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 40  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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				20				
RC	80				70				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	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82			
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67			
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56			
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47			
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40			
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35			
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31			
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27			
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1363	1363	1363
5°	1369	1360	1367
10°	1365	1360	1367
15°	1363	1360	1369
20°	1352	1359	1373
25°	1348	1362	1376
30°	1336	1358	1381
35°	1323	1355	1386
40°	1308	1353	1404
45°	1286	1354	1435
50°	1258	1362	1479
55°	1226	1383	1545
60°	1174	1411	1630
65°	1099	1460	1730
70°	1000	1528	1861
75°	847	1612	1945
80°	669	1621	1573
85°	494	1234	1381



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.6	3.0
10°-20°	263.7	8.6
20°-30°	403.3	13.1
30°-40°	493.0	16.0
40°-50°	525.5	17.1
50°-60°	502.4	16.4
60°-70°	425.6	13.9
70°-80°	286.0	9.3
80°-90°	80.7	2.6
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°	758.7	24.7
0°-40°	1251.7	40.7
0°-60°	2279.7	74.2
0°-90°	3072.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3072.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	966	966	966	966	966	
5°	966	965	960	965	965	92
15°	933	933	931	939	937	263
25°	866	868	875	882	884	399
35°	768	774	786	801	805	481
45°	644	655	678	707	719	497
55°	498	516	562	606	628	444
65°	329	363	437	495	518	327
75°	155	212	296	346	357	166
85°	30	62	76	82	85	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	966.1	966.1	966.1	966.1	966.1
2.5°	967.5	967.5	962.9	966.1	966.1
5°	966.1	964.6	960.0	964.6	964.6
7.5°	961.5	960.0	956.9	961.5	960.0
10°	952.3	952.3	949.3	953.9	953.9
12.5°	944.8	943.3	941.6	947.7	946.2
15°	932.6	932.6	931.0	938.7	937.0
17.5°	917.4	918.8	920.3	926.4	928.0
20°	900.5	903.6	905.1	914.3	914.3
22.5°	885.2	886.9	889.8	899.0	899.0
25°	865.6	868.5	874.6	882.3	883.8
27.5°	845.7	847.2	854.9	865.6	867.0
30°	819.8	824.4	833.4	845.7	847.2
32.5°	796.8	801.4	812.1	824.4	827.3
35°	768.0	774.1	786.2	801.4	804.6
37.5°	742.1	746.7	761.9	778.7	783.3
40°	710.1	719.1	734.4	754.2	761.9
42.5°	678.2	687.2	705.5	731.4	740.6
45°	644.5	655.2	678.2	707.0	719.1
47.5°	611.1	623.2	649.1	682.6	696.3
50°	572.9	588.1	620.1	658.3	673.6
52.5°	536.3	554.7	589.8	632.4	652.3
55°	498.3	516.5	562.2	606.5	627.8
57.5°	455.7	479.9	530.3	580.6	603.4
60°	416.0	438.8	499.8	554.7	577.5
62.5°	373.3	403.8	469.3	527.1	550.1
65°	329.1	362.7	437.3	495.2	518.1
67.5°	289.6	326.1	405.3	463.2	486.2
70°	242.3	287.9	370.2	428.1	451.1
72.5°	198.1	248.4	333.7	390.1	411.4
75°	155.4	211.8	295.6	346.0	356.6
77.5°	115.8	175.3	255.9	277.3	269.7
80°	82.3	140.2	199.5	188.9	193.5
82.5°	53.3	106.7	123.5	140.2	144.8
85°	30.5	62.5	76.2	82.3	85.3
87.5°	13.8	22.8	30.5	30.5	29.0
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)