

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: P732248

Luminaire Tested: **24CZ2-45-RDP-B2750-W2D-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732248  
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: 24CZ2-45-RDP-B2750-W2D-3500K  
Description: 2X4 4500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RDP LENS

Light Source: -  
Ballast/Driver: -

**Summary**

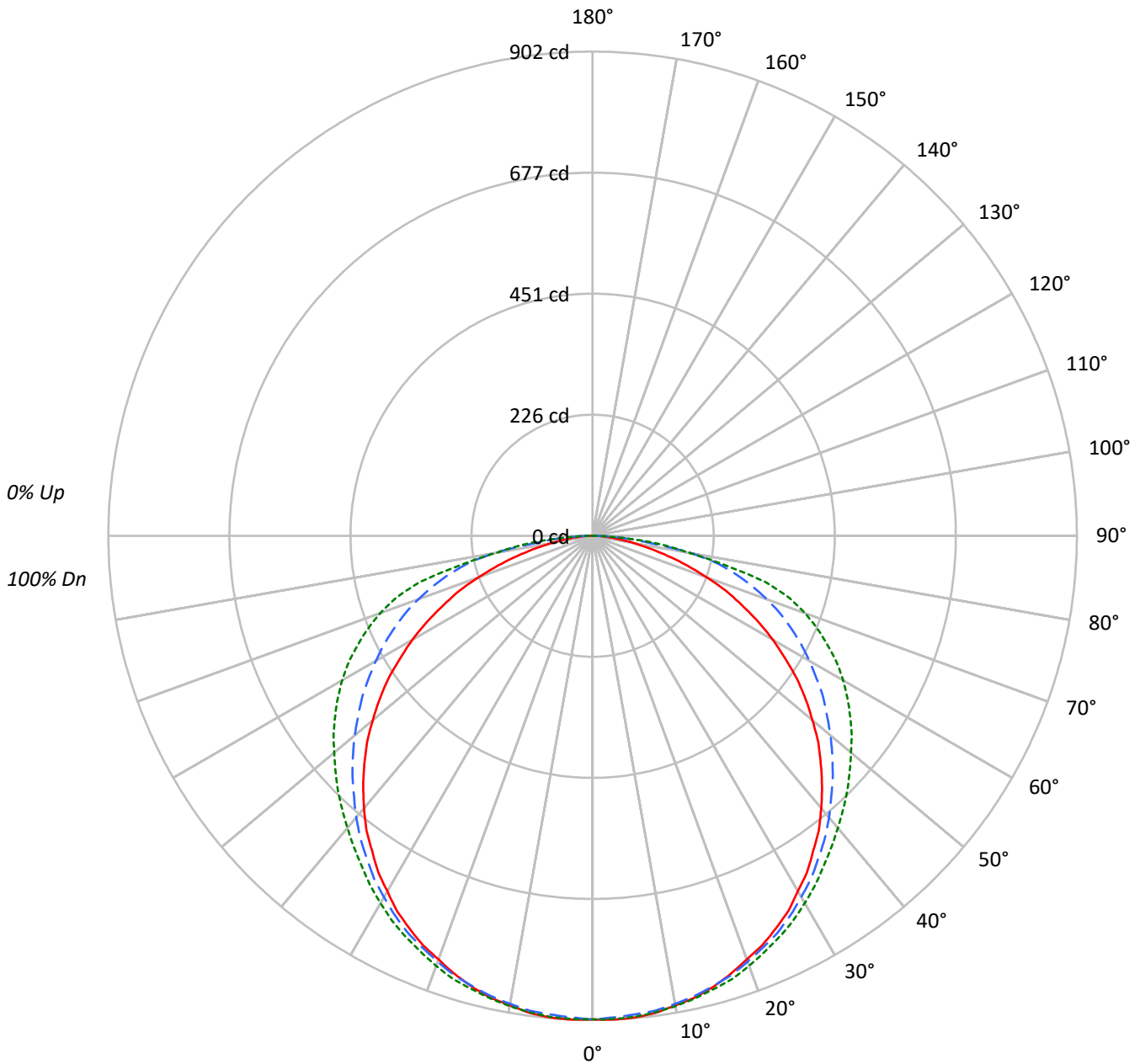
Lumens per Lamp: N/A  
Luminaire Lumens: 2865.0 lumens  
Efficiency: N/A  
Efficacy: 79.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 36  
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									
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	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°	1272	1272	1272
5°	1276	1268	1274
10°	1273	1269	1275
15°	1271	1269	1277
20°	1261	1268	1281
25°	1257	1270	1283
30°	1246	1267	1288
35°	1234	1263	1293
40°	1220	1262	1309
45°	1200	1262	1339
50°	1173	1270	1379
55°	1143	1290	1441
60°	1095	1316	1520
65°	1025	1362	1614
70°	933	1425	1736
75°	791	1503	1814
80°	624	1513	1466
85°	460	1151	1287



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.5	3.0
10°-20°	246.0	8.6
20°-30°	376.1	13.1
30°-40°	459.8	16.0
40°-50°	490.1	17.1
50°-60°	468.6	16.4
60°-70°	396.9	13.9
70°-80°	266.8	9.3
80°-90°	75.3	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°	707.6	24.7
0°-40°	1167.4	40.7
0°-60°	2126.0	74.2
0°-90°	2865.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2865.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	901	901	901	901	901	
5°	901	900	895	900	900	86
15°	870	870	868	875	874	245
25°	807	810	816	823	824	372
35°	716	722	733	747	750	449
45°	601	611	632	659	671	464
55°	465	482	524	566	586	414
65°	307	338	408	462	483	305
75°	145	198	276	323	333	155
85°	28	58	71	77	80	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	901.0	901.0	901.0	901.0	901.0
2.5°	902.3	902.3	898.1	901.0	901.0
5°	901.0	899.6	895.3	899.6	899.6
7.5°	896.7	895.3	892.4	896.7	895.3
10°	888.1	888.1	885.4	889.7	889.7
12.5°	881.1	879.7	878.2	883.8	882.5
15°	869.8	869.8	868.2	875.4	873.9
17.5°	855.6	856.9	858.3	864.0	865.5
20°	839.8	842.7	844.1	852.6	852.6
22.5°	825.6	827.1	829.9	838.4	838.4
25°	807.2	810.0	815.6	822.8	824.2
27.5°	788.7	790.1	797.3	807.2	808.6
30°	764.6	768.9	777.3	788.7	790.1
32.5°	743.2	747.4	757.4	768.9	771.6
35°	716.3	721.9	733.2	747.4	750.4
37.5°	692.1	696.4	710.6	726.2	730.5
40°	662.3	670.7	684.9	703.4	710.6
42.5°	632.5	640.9	658.0	682.2	690.7
45°	601.1	611.0	632.5	659.4	670.7
47.5°	569.9	581.2	605.4	636.6	649.4
50°	534.3	548.5	578.3	614.0	628.2
52.5°	500.2	517.3	550.0	589.8	608.3
55°	464.7	481.7	524.3	565.6	585.5
57.5°	425.0	447.6	494.5	541.5	562.7
60°	387.9	409.2	466.1	517.3	538.6
62.5°	348.2	376.6	437.6	491.6	513.0
65°	306.9	338.2	407.8	461.8	483.2
67.5°	270.1	304.1	378.0	432.0	453.4
70°	226.0	268.5	345.3	399.3	420.7
72.5°	184.7	231.7	311.2	363.8	383.7
75°	145.0	197.6	275.7	322.7	332.6
77.5°	108.0	163.5	238.7	258.6	251.5
80°	76.8	130.7	186.1	176.1	180.4
82.5°	49.7	99.6	115.1	130.7	135.0
85°	28.4	58.3	71.1	76.8	79.5
87.5°	12.9	21.2	28.4	28.4	27.1
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)