

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: P732193

Luminaire Tested: **24CZ2-40-HRP-B2750-W2D-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732193  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P295011)  
Test Lab: INNOVATIONS CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-40-HRP-B2750-W2D-3500K  
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND HRP LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

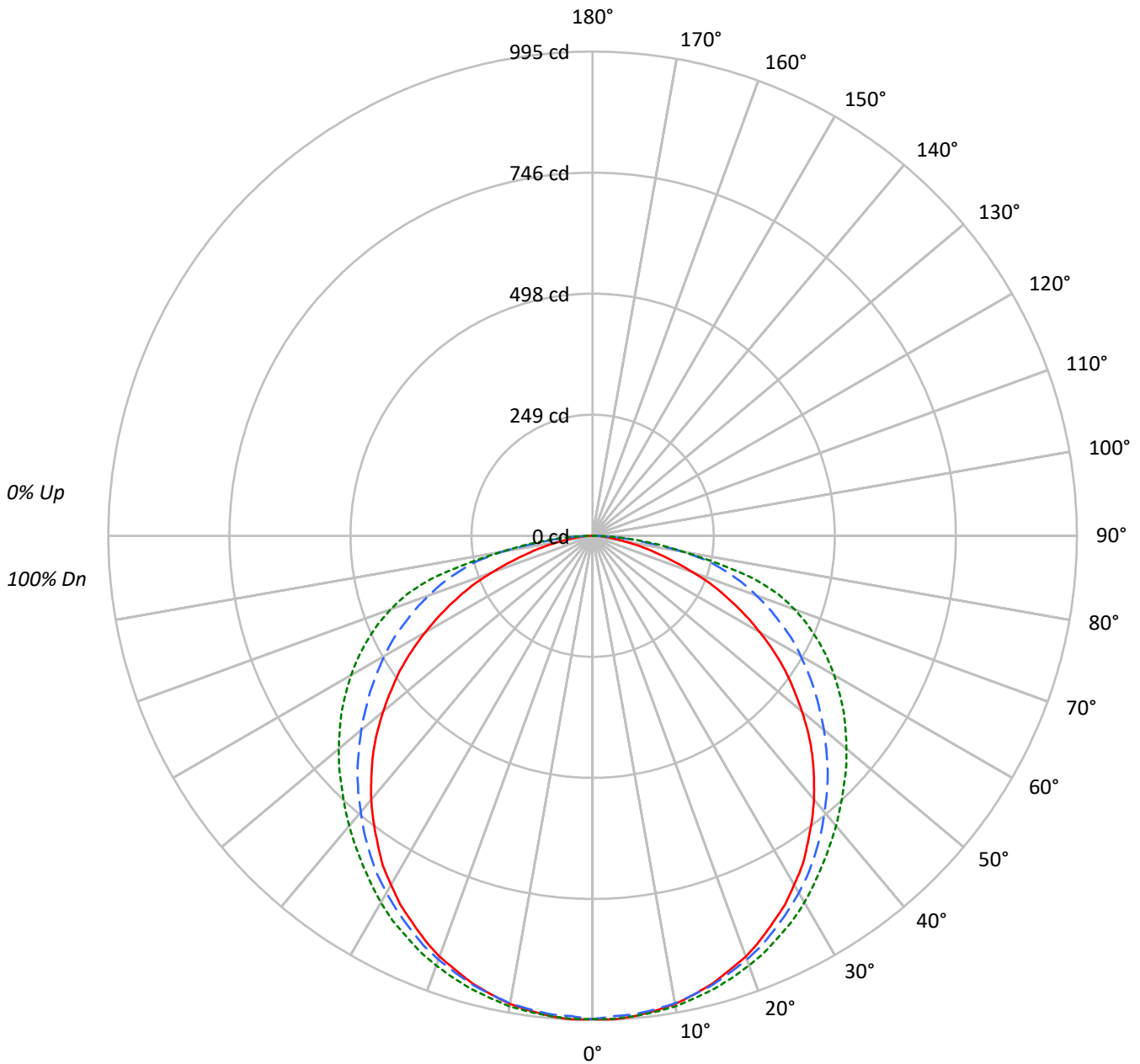
Lumens per Lamp: N/A  
Luminaire Lumens: 3062.0 lumens  
Efficiency: N/A  
Efficacy: 98.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 31  
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	101	96	93	96	93	90	92	90	87	89	86	84	82								
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67								
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56								
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	50	48								
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41								
6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	49	42	38	36								
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31								
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28								
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25								
10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24	23								

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

	0°	45°	90°
0°	1402	1402	1402
5°	1404	1398	1404
10°	1400	1398	1407
15°	1392	1395	1409
20°	1382	1392	1411
25°	1365	1385	1413
30°	1350	1381	1418
35°	1328	1374	1420
40°	1303	1365	1434
45°	1274	1364	1456
50°	1233	1362	1495
55°	1189	1372	1549
60°	1122	1393	1617
65°	1036	1426	1708
70°	905	1476	1820
75°	734	1552	1880
80°	541	1521	1521
85°	416	1122	1266



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.1	3.1
10°-20°	270.3	8.8
20°-30°	411.4	13.4
30°-40°	499.6	16.3
40°-50°	527.8	17.2
50°-60°	498.0	16.3
60°-70°	414.1	13.5
70°-80°	272.5	8.9
80°-90°	74.3	2.4
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°	775.8	25.3
0°-40°	1275.4	41.7
0°-60°	2301.2	75.2
0°-90°	3062.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3062.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	994	994	994	994	994	
5°	991	991	987	991	991	94
15°	952	954	955	964	964	269
25°	877	882	890	905	908	404
35°	770	779	797	818	824	482
45°	638	651	683	717	729	492
55°	483	504	558	610	629	430
65°	310	346	427	490	511	307
75°	135	196	285	337	345	145
85°	26	56	69	77	78	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	993.5	993.5	993.5	993.5	993.5
2.5°	994.8	993.5	988.3	993.5	993.5
5°	991.0	991.0	987.0	991.0	991.0
7.5°	984.5	984.5	981.9	987.0	987.0
10°	976.9	976.9	975.4	981.9	981.9
12.5°	965.3	966.6	965.3	972.9	972.9
15°	952.4	953.7	955.0	964.0	964.0
17.5°	935.8	938.3	940.9	951.2	952.4
20°	920.4	921.7	926.8	938.3	939.6
22.5°	899.8	903.8	910.1	921.7	925.5
25°	876.8	881.9	889.7	905.0	907.6
27.5°	855.0	858.9	869.1	885.7	890.9
30°	828.2	834.5	847.3	864.0	870.3
32.5°	802.5	808.8	824.2	842.3	847.3
35°	770.5	779.3	797.4	817.9	824.2
37.5°	739.7	748.6	770.5	793.4	801.2
40°	707.5	717.8	741.0	767.9	778.1
42.5°	673.0	687.1	712.8	742.2	753.8
45°	638.4	651.2	683.3	716.6	729.4
47.5°	601.1	616.5	651.2	690.9	706.3
50°	561.5	580.7	620.5	664.1	680.7
52.5°	521.7	543.4	588.3	637.1	655.0
55°	483.2	503.8	557.5	610.2	629.4
57.5°	441.0	466.6	525.5	582.0	601.1
60°	397.4	425.7	493.5	552.5	572.9
62.5°	353.8	385.9	462.7	521.7	543.4
65°	310.2	346.1	426.9	489.7	511.4
67.5°	267.9	307.7	393.5	456.4	478.1
70°	219.2	269.2	357.6	419.2	441.0
72.5°	174.4	232.1	323.1	380.8	400.0
75°	134.6	196.1	284.6	337.2	344.8
77.5°	98.8	160.3	244.8	262.8	264.1
80°	66.6	128.3	187.2	184.5	187.2
82.5°	43.6	96.1	117.9	132.1	133.3
85°	25.7	56.4	69.3	76.9	78.2
87.5°	12.8	19.2	24.4	25.7	28.2
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)