

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: P732197

Luminaire Tested: **24CZ2-40-RDP-B2750-W2D-3000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732197  
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: 24CZ2-40-RDP-B2750-W2D-3000K  
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND RDP LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

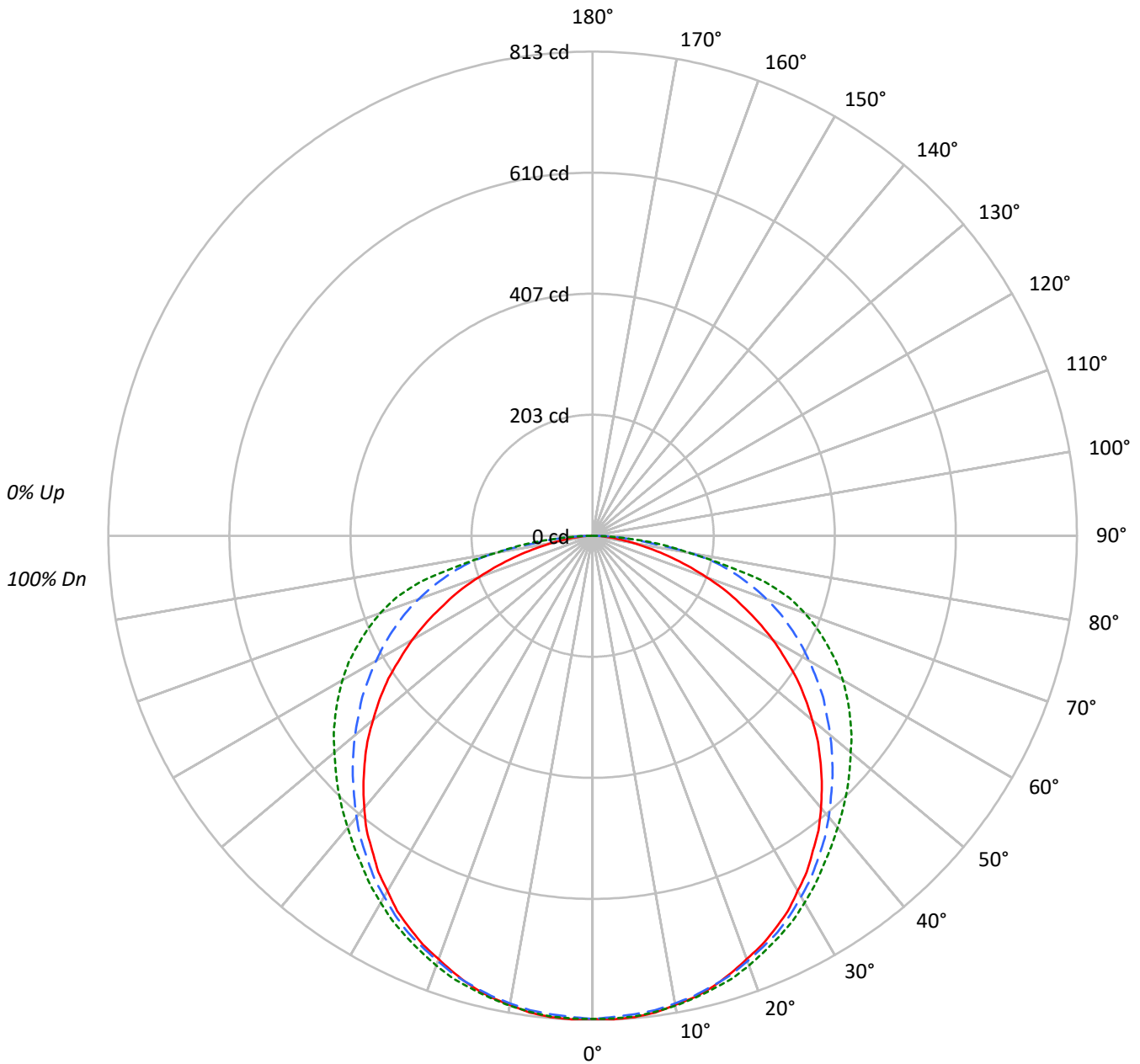
Lumens per Lamp: N/A  
Luminaire Lumens: 2580.0 lumens  
Efficiency: N/A  
Efficacy: 83.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	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	68	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°	1145	1145	1145
5°	1149	1142	1148
10°	1146	1143	1148
15°	1145	1142	1150
20°	1136	1142	1153
25°	1132	1144	1156
30°	1122	1141	1160
35°	1111	1138	1164
40°	1099	1136	1179
45°	1080	1137	1206
50°	1056	1143	1242
55°	1030	1162	1297
60°	986	1185	1369
65°	923	1226	1453
70°	840	1283	1563
75°	712	1354	1633
80°	562	1362	1321
85°	415	1036	1159



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.0	3.0
10°-20°	221.5	8.6
20°-30°	338.7	13.1
30°-40°	414.1	16.0
40°-50°	441.3	17.1
50°-60°	422.0	16.4
60°-70°	357.4	13.9
70°-80°	240.2	9.3
80°-90°	67.8	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°	637.2	24.7
0°-40°	1051.3	40.7
0°-60°	1914.6	74.2
0°-90°	2580.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2580.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	811	811	811	811	811	
5°	811	810	806	810	810	77
15°	783	783	782	788	787	221
25°	727	729	734	741	742	335
35°	645	650	660	673	676	404
45°	541	550	570	594	604	418
55°	418	434	472	509	527	373
65°	276	305	367	416	435	274
75°	130	178	248	291	300	140
85°	26	52	64	69	72	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	811.3	811.3	811.3	811.3	811.3
2.5°	812.6	812.6	808.7	811.3	811.3
5°	811.3	810.1	806.3	810.1	810.1
7.5°	807.5	806.3	803.6	807.5	806.3
10°	799.8	799.8	797.3	801.2	801.2
12.5°	793.4	792.2	790.8	795.9	794.7
15°	783.3	783.3	781.9	788.4	787.0
17.5°	770.5	771.7	772.9	778.0	779.4
20°	756.3	758.9	760.1	767.8	767.8
22.5°	743.4	744.8	747.3	755.0	755.0
25°	726.9	729.4	734.5	741.0	742.2
27.5°	710.3	711.5	718.0	726.9	728.2
30°	688.5	692.4	699.9	710.3	711.5
32.5°	669.2	673.1	682.0	692.4	694.8
35°	645.0	650.1	660.3	673.1	675.7
37.5°	623.2	627.1	639.9	654.0	657.8
40°	596.4	604.0	616.8	633.4	639.9
42.5°	569.5	577.1	592.5	614.3	622.0
45°	541.3	550.3	569.5	593.8	604.0
47.5°	513.2	523.4	545.2	573.2	584.8
50°	481.1	493.9	520.8	552.9	565.7
52.5°	450.4	465.9	495.3	531.1	547.8
55°	418.5	433.8	472.2	509.4	527.3
57.5°	382.7	403.0	445.3	487.6	506.7
60°	349.4	368.5	419.7	465.9	485.0
62.5°	313.6	339.2	394.1	442.7	462.0
65°	276.4	304.6	367.2	415.9	435.1
67.5°	243.2	273.9	340.4	389.0	408.3
70°	203.5	241.8	310.9	359.5	378.8
72.5°	166.3	208.6	280.2	327.6	345.5
75°	130.5	177.9	248.3	290.6	299.5
77.5°	97.2	147.2	214.9	232.8	226.5
80°	69.1	117.7	167.6	158.6	162.5
82.5°	44.7	89.7	103.7	117.7	121.6
85°	25.6	52.5	64.0	69.1	71.6
87.5°	11.6	19.1	25.6	25.6	24.4
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)