

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: P732222

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732222  
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: 24CZ2-40HE-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**

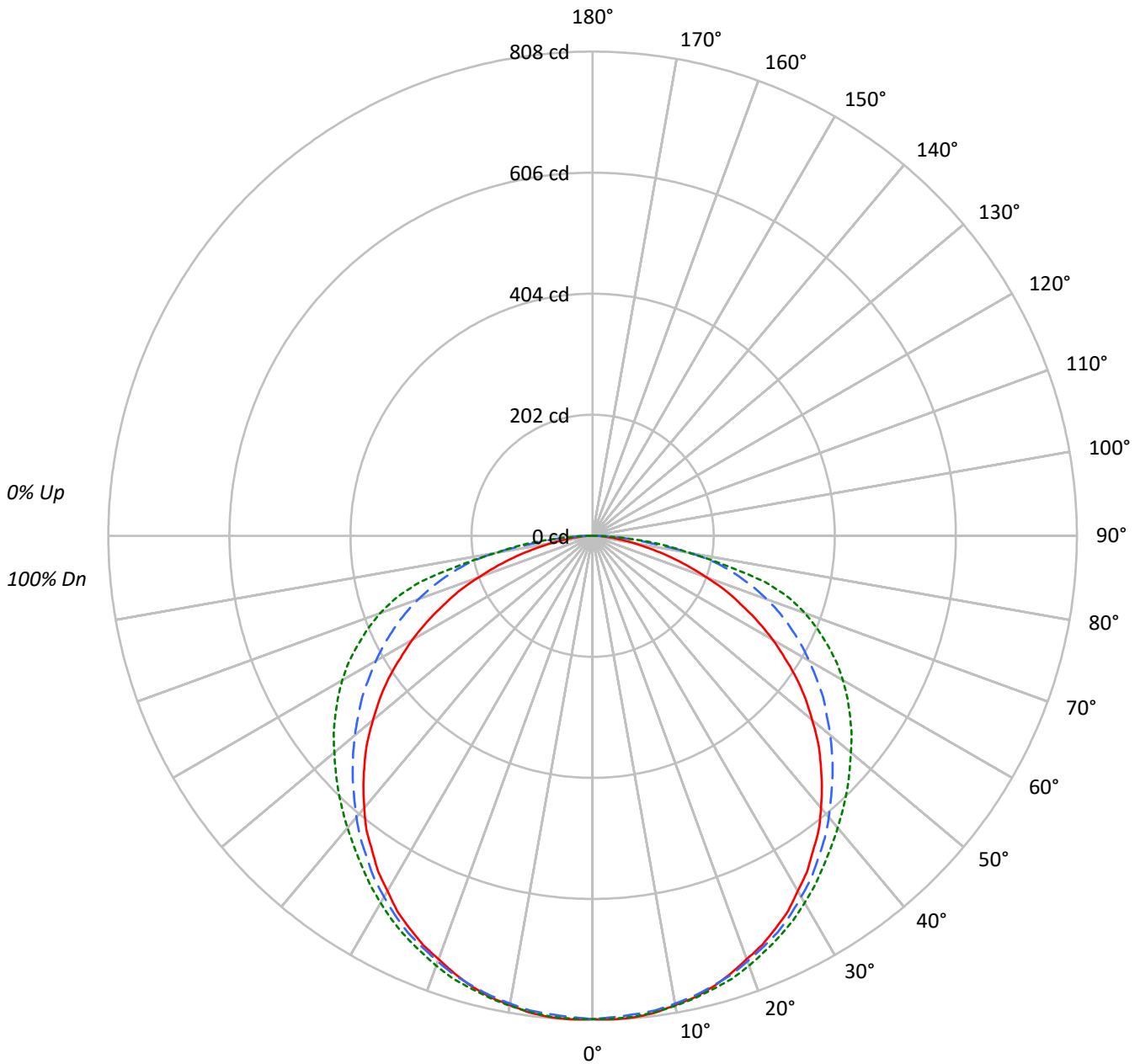
Lumens per Lamp: N/A  
Luminaire Lumens: 2565.0 lumens  
Efficiency: N/A  
Efficacy: 88.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 29  
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°	1138	1138	1138
5°	1143	1136	1141
10°	1139	1136	1141
15°	1138	1136	1143
20°	1129	1135	1147
25°	1125	1137	1149
30°	1116	1134	1153
35°	1105	1131	1157
40°	1092	1130	1172
45°	1074	1130	1198
50°	1050	1137	1235
55°	1024	1155	1290
60°	980	1178	1361
65°	918	1219	1445
70°	835	1275	1554
75°	708	1346	1624
80°	558	1354	1313
85°	413	1032	1153



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.5	3.0
10°-20°	220.2	8.6
20°-30°	336.8	13.1
30°-40°	411.7	16.0
40°-50°	438.8	17.1
50°-60°	419.5	16.4
60°-70°	355.4	13.9
70°-80°	238.8	9.3
80°-90°	67.4	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°	633.5	24.7
0°-40°	1045.1	40.7
0°-60°	1903.4	74.2
0°-90°	2565.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2565.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	807	807	807	807	807	
5°	807	805	802	805	805	77
15°	779	779	777	784	782	220
25°	723	725	730	737	738	333
35°	641	646	656	669	672	402
45°	538	547	566	590	600	415
55°	416	431	469	506	524	371
65°	275	303	365	413	433	273
75°	130	177	247	289	298	139
85°	26	52	64	69	71	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	806.6	806.6	806.6	806.6	806.6
2.5°	807.9	807.9	804.0	806.6	806.6
5°	806.6	805.4	801.6	805.4	805.4
7.5°	802.8	801.6	799.0	802.8	801.6
10°	795.1	795.1	792.7	796.5	796.5
12.5°	788.8	787.6	786.2	791.3	790.1
15°	778.7	778.7	777.3	783.8	782.4
17.5°	766.0	767.2	768.4	773.5	774.9
20°	751.9	754.5	755.7	763.4	763.4
22.5°	739.1	740.5	743.0	750.6	750.6
25°	722.7	725.2	730.2	736.7	737.9
27.5°	706.1	707.4	713.8	722.7	723.9
30°	684.5	688.3	695.9	706.1	707.4
32.5°	665.3	669.2	678.1	688.3	690.8
35°	641.3	646.3	656.4	669.2	671.8
37.5°	619.6	623.5	636.2	650.1	654.0
40°	592.9	600.4	613.2	629.7	636.2
42.5°	566.2	573.8	589.1	610.7	618.4
45°	538.2	547.1	566.2	590.3	600.4
47.5°	510.2	520.4	542.0	569.9	581.4
50°	478.3	491.1	517.8	549.7	562.4
52.5°	447.8	463.1	492.4	528.0	544.6
55°	416.0	431.2	469.4	506.4	524.2
57.5°	380.5	400.7	442.7	484.8	503.8
60°	347.3	366.3	417.3	463.1	482.2
62.5°	311.7	337.2	391.8	440.1	459.3
65°	274.8	302.8	365.1	413.4	432.6
67.5°	241.8	272.3	338.4	386.7	405.9
70°	202.3	240.4	309.1	357.4	376.6
72.5°	165.4	207.4	278.6	325.7	343.5
75°	129.8	176.9	246.8	288.9	297.8
77.5°	96.6	146.4	213.7	231.5	225.2
80°	68.7	117.1	166.6	157.7	161.5
82.5°	44.5	89.1	103.1	117.1	120.9
85°	25.5	52.2	63.7	68.7	71.2
87.5°	11.5	19.0	25.5	25.5	24.2
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)