

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: P732221

Luminaire Tested: **24CZ2-40HE-RDP-B2750-W2D-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732221  
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-2700K  
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND RDP LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

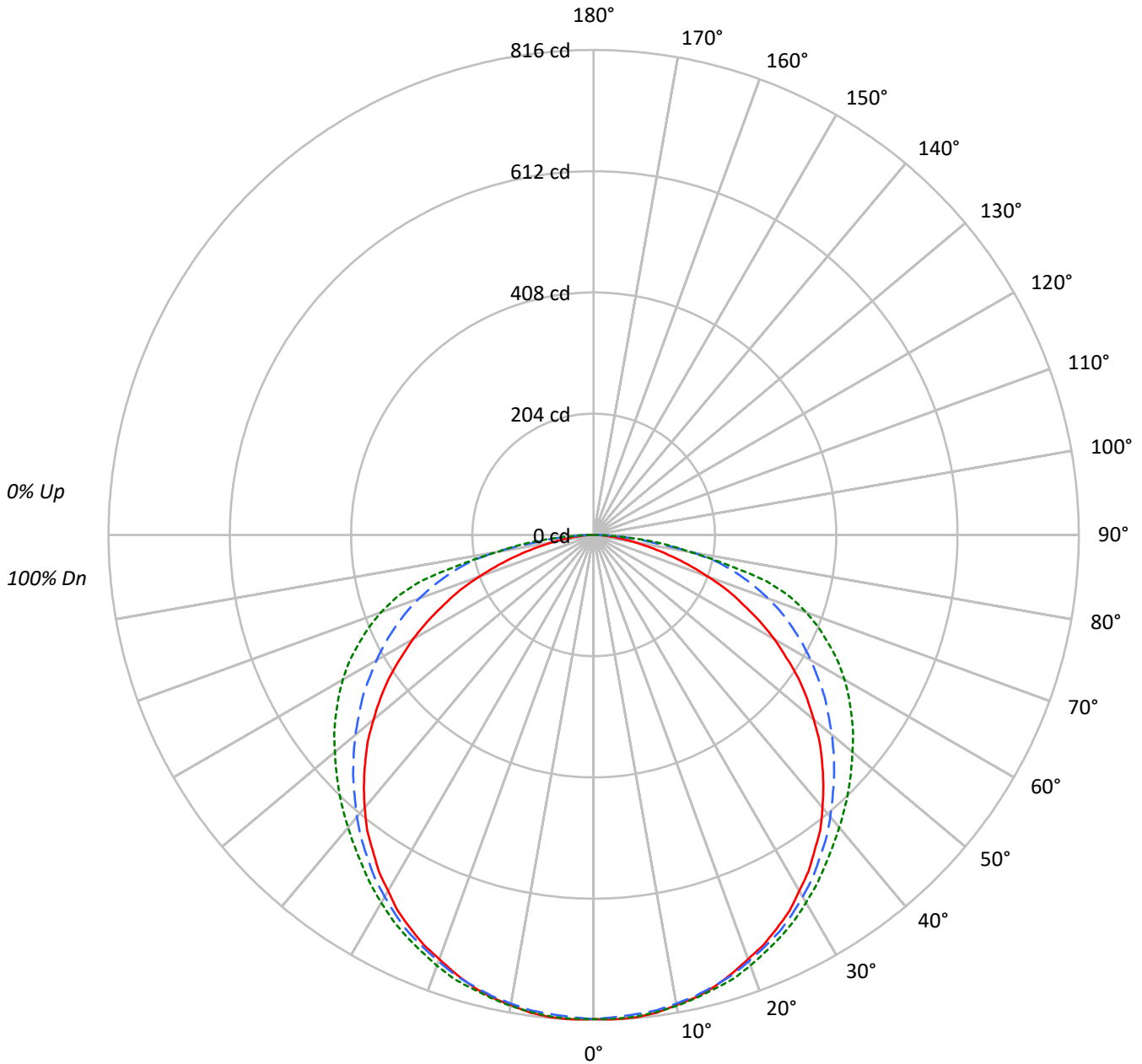
Lumens per Lamp: N/A  
Luminaire Lumens: 2591.0 lumens  
Efficiency: N/A  
Efficacy: 89.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 29  
Input Voltage (V): NR  
Input Current (Ain): 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°	1150	1150	1150
5°	1154	1147	1153
10°	1151	1147	1153
15°	1149	1147	1155
20°	1141	1147	1158
25°	1137	1149	1161
30°	1127	1145	1164
35°	1116	1142	1169
40°	1103	1141	1184
45°	1085	1142	1211
50°	1061	1148	1247
55°	1034	1167	1303
60°	990	1190	1375
65°	927	1232	1459
70°	843	1289	1570
75°	715	1359	1640
80°	564	1368	1326
85°	416	1041	1164



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.3	3.0
10°-20°	222.4	8.6
20°-30°	340.2	13.1
30°-40°	415.8	16.0
40°-50°	443.2	17.1
50°-60°	423.8	16.4
60°-70°	359.0	13.9
70°-80°	241.3	9.3
80°-90°	68.0	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°	639.9	24.7
0°-40°	1055.7	40.7
0°-60°	1922.7	74.2
0°-90°	2591.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2591.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	815	815	815	815	815	
5°	815	814	810	814	814	77
15°	787	787	785	792	790	222
25°	730	732	738	744	745	336
35°	648	653	663	676	679	406
45°	544	553	572	596	606	419
55°	420	436	474	512	530	374
65°	278	306	369	418	437	276
75°	131	179	249	292	301	140
85°	26	53	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°	814.8	814.8	814.8	814.8	814.8
2.5°	816.0	816.0	812.2	814.8	814.8
5°	814.8	813.6	809.7	813.6	813.6
7.5°	810.9	809.7	807.1	810.9	809.7
10°	803.2	803.2	800.7	804.6	804.6
12.5°	796.8	795.6	794.2	799.3	798.1
15°	786.6	786.6	785.2	791.7	790.3
17.5°	773.7	775.0	776.2	781.3	782.7
20°	759.5	762.1	763.4	771.1	771.1
22.5°	746.6	748.0	750.5	758.2	758.2
25°	730.0	732.5	737.6	744.1	745.4
27.5°	713.3	714.5	721.0	730.0	731.3
30°	691.5	695.3	702.9	713.3	714.5
32.5°	672.1	676.0	684.9	695.3	697.8
35°	647.8	652.9	663.1	676.0	678.6
37.5°	625.9	629.8	642.6	656.7	660.6
40°	598.9	606.5	619.4	636.1	642.6
42.5°	572.0	579.6	595.1	616.9	624.7
45°	543.6	552.6	572.0	596.3	606.5
47.5°	515.4	525.6	547.5	575.7	587.3
50°	483.2	496.0	523.0	555.2	568.1
52.5°	452.3	467.8	497.4	533.4	550.1
55°	420.3	435.6	474.2	511.5	529.5
57.5°	384.3	404.8	447.2	489.7	508.9
60°	350.8	370.1	421.5	467.8	487.1
62.5°	314.9	340.6	395.8	444.6	464.0
65°	277.5	305.9	368.8	417.6	437.0
67.5°	244.2	275.1	341.9	390.7	410.0
70°	204.4	242.8	312.3	361.1	380.4
72.5°	167.1	209.5	281.4	329.0	347.0
75°	131.1	178.7	249.3	291.8	300.8
77.5°	97.6	147.8	215.9	233.8	227.5
80°	69.4	118.2	168.3	159.3	163.2
82.5°	44.9	90.0	104.1	118.2	122.1
85°	25.7	52.7	64.3	69.4	71.9
87.5°	11.6	19.2	25.7	25.7	24.5
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)