

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: P732223

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

Issue Date: 1/5/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P732223  
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-3500K  
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RDP LENS

Light Source: -  
Ballast/Driver: -

**Summary**

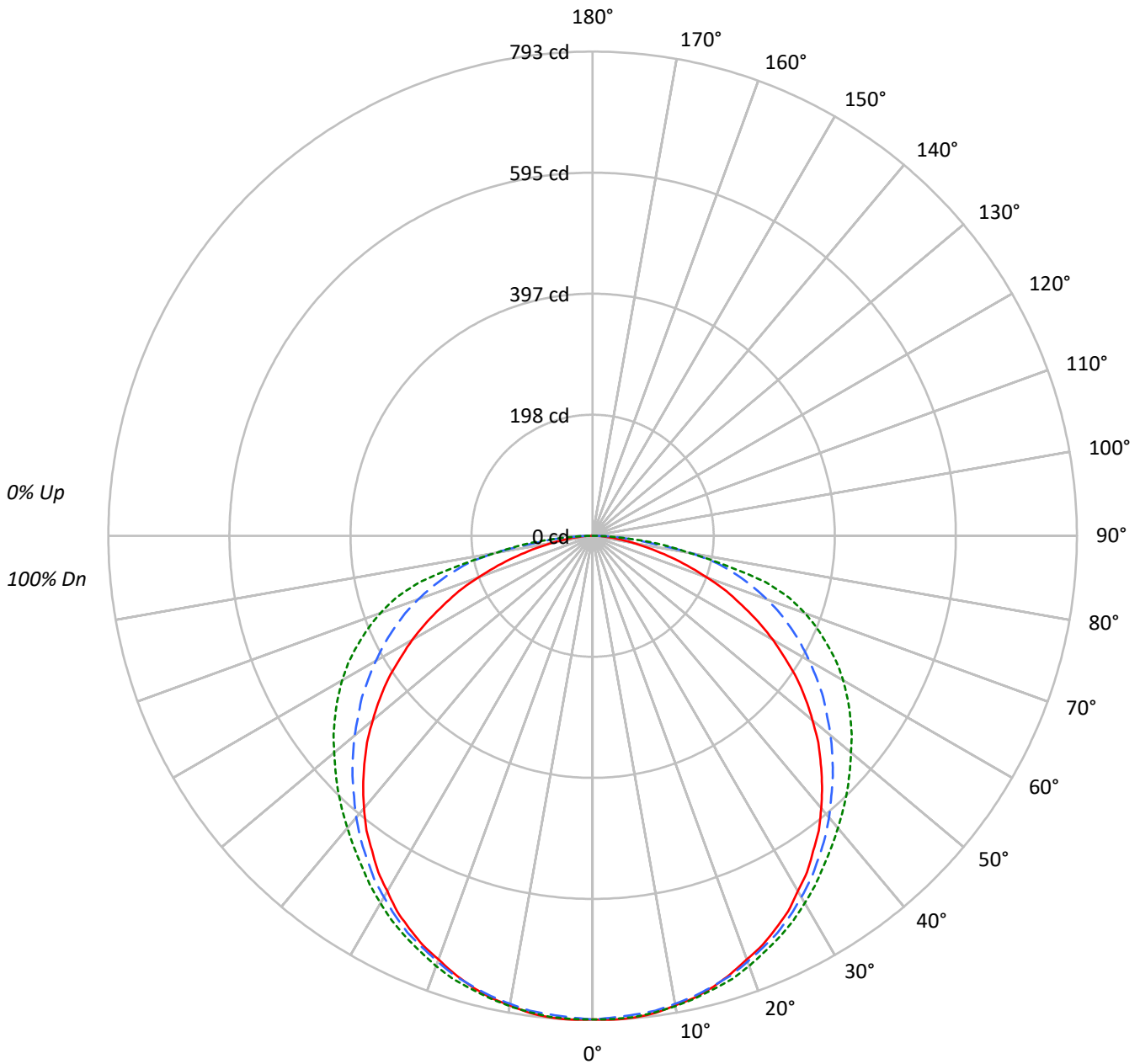
Lumens per Lamp: N/A  
Luminaire Lumens: 2519.0 lumens  
Efficiency: N/A  
Efficacy: 86.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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				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				100
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82				82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67				67
3	88	77	68	62	86	76	68	61	72	66	60	70	64	59	67	62	58	56				56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47				47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40				40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35				35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31				31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27				27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24				24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22				22

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

	0°	45°	90°
0°	1118	1118	1118
5°	1122	1115	1121
10°	1119	1116	1121
15°	1117	1115	1123
20°	1109	1115	1126
25°	1105	1117	1129
30°	1095	1114	1132
35°	1085	1111	1137
40°	1073	1109	1151
45°	1055	1110	1177
50°	1032	1116	1213
55°	1005	1134	1267
60°	963	1157	1337
65°	901	1198	1419
70°	820	1253	1526
75°	695	1322	1594
80°	549	1330	1289
85°	405	1012	1132



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.1	3.0
10°-20°	216.3	8.6
20°-30°	330.7	13.1
30°-40°	404.3	16.0
40°-50°	430.9	17.1
50°-60°	412.0	16.4
60°-70°	349.0	13.9
70°-80°	234.5	9.3
80°-90°	66.2	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°	622.1	24.7
0°-40°	1026.4	40.7
0°-60°	1869.3	74.2
0°-90°	2519.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2519.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	792	792	792	792	792	
5°	792	791	787	791	791	75
15°	765	765	763	770	768	216
25°	710	712	717	724	725	327
35°	630	635	645	657	660	395
45°	528	537	556	580	590	408
55°	409	424	461	497	515	364
65°	270	297	359	406	425	268
75°	128	174	242	284	292	136
85°	25	51	62	68	70	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	792.2	792.2	792.2	792.2	792.2
2.5°	793.4	793.4	789.6	792.2	792.2
5°	792.2	791.0	787.2	791.0	791.0
7.5°	788.4	787.2	784.6	788.4	787.2
10°	780.9	780.9	778.5	782.2	782.2
12.5°	774.7	773.5	772.1	777.1	775.9
15°	764.7	764.7	763.4	769.7	768.4
17.5°	752.2	753.4	754.6	759.6	761.0
20°	738.4	740.9	742.1	749.7	749.7
22.5°	725.9	727.2	729.6	737.2	737.2
25°	709.8	712.2	717.1	723.5	724.7
27.5°	693.5	694.7	701.0	709.8	711.0
30°	672.2	676.0	683.4	693.5	694.7
32.5°	653.4	657.2	665.9	676.0	678.4
35°	629.8	634.7	644.7	657.2	659.7
37.5°	608.5	612.3	624.8	638.5	642.3
40°	582.3	589.7	602.2	618.5	624.8
42.5°	556.1	563.5	578.5	599.8	607.3
45°	528.5	537.2	556.1	579.7	589.7
47.5°	501.1	511.0	532.3	559.7	571.0
50°	469.8	482.3	508.5	539.8	552.3
52.5°	439.8	454.8	483.6	518.6	534.8
55°	408.6	423.5	461.0	497.3	514.8
57.5°	373.6	393.5	434.8	476.1	494.8
60°	341.1	359.8	409.8	454.8	473.5
62.5°	306.1	331.1	384.8	432.2	451.1
65°	269.8	297.4	358.6	406.0	424.9
67.5°	237.4	267.4	332.4	379.8	398.6
70°	198.7	236.1	303.6	351.0	369.9
72.5°	162.4	203.7	273.6	319.8	337.3
75°	127.5	173.7	242.4	283.7	292.4
77.5°	94.9	143.7	209.9	227.3	221.2
80°	67.5	115.0	163.6	154.9	158.6
82.5°	43.7	87.5	101.2	115.0	118.7
85°	25.0	51.2	62.5	67.5	69.9
87.5°	11.3	18.7	25.0	25.0	23.8
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)