

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: P732226

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732226  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272125)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-40HE-S-B2750-W2D-2700K  
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND SMOOTH LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

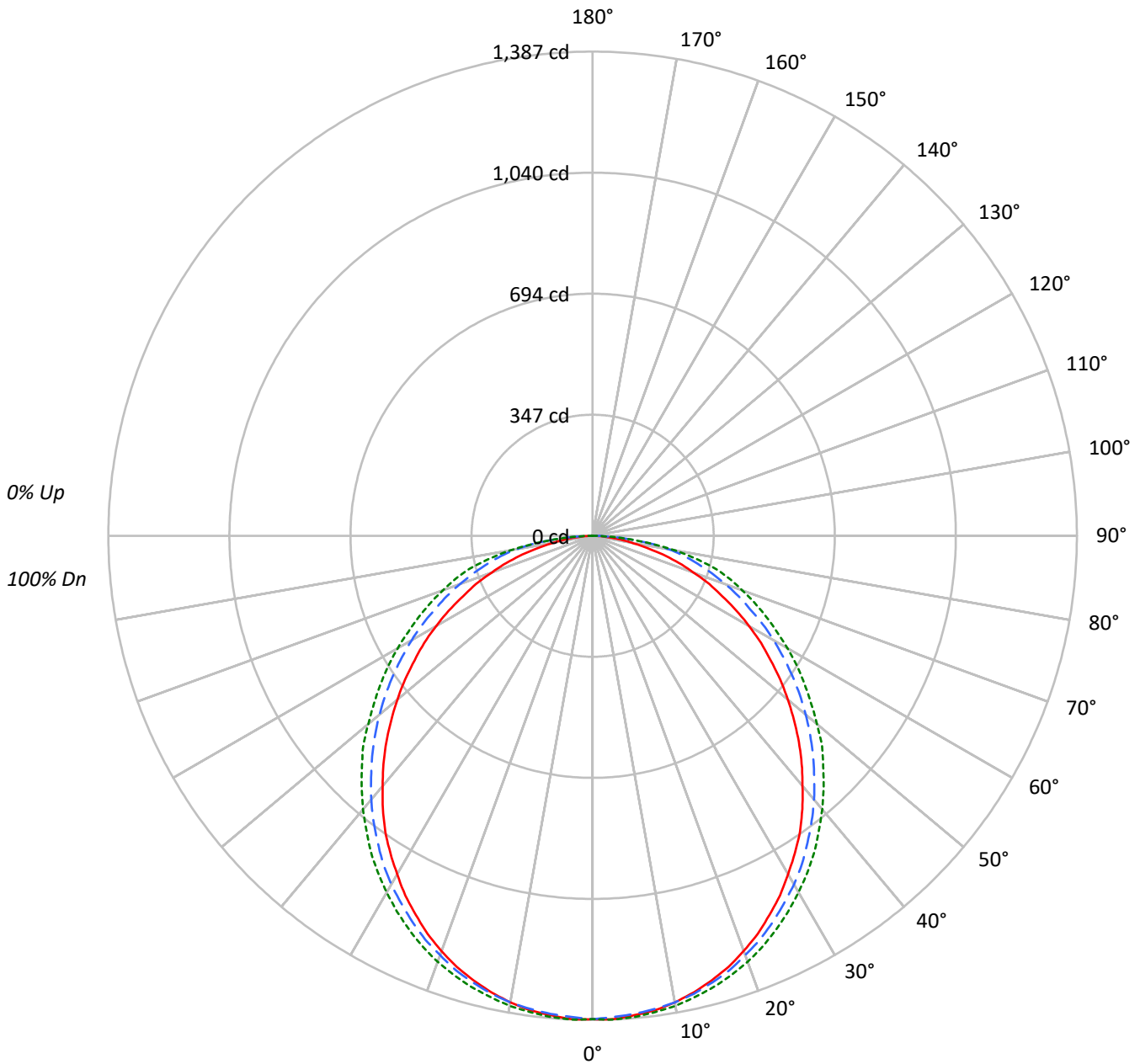
Lumens per Lamp: N/A  
Luminaire Lumens: 3942.0 lumens  
Efficiency: N/A  
Efficacy: 135.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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									
RC	80									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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83																			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69																			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42																			
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37																			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33																			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26																			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24																			

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

	0°	45°	90°
0°	1955	1955	1955
5°	1953	1948	1960
10°	1945	1945	1959
15°	1926	1936	1956
20°	1901	1920	1950
25°	1866	1901	1938
30°	1824	1879	1922
35°	1784	1849	1907
40°	1723	1818	1885
45°	1667	1782	1864
50°	1603	1749	1842
55°	1531	1716	1824
60°	1460	1689	1820
65°	1367	1660	1831
70°	1266	1669	1881
75°	1134	1700	1987
80°	916	1801	1943
85°	688	1580	1542



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.1	3.3
10°-20°	374.6	9.5
20°-30°	563.1	14.3
30°-40°	670.8	17.0
40°-50°	686.5	17.4
50°-60°	618.1	15.7
60°-70°	485.4	12.3
70°-80°	315.0	8.0
80°-90°	97.4	2.5
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°	1068.8	27.1
0°-40°	1739.6	44.1
0°-60°	3044.2	77.2
0°-90°	3942.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3942.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1385	1385	1385	1385	1385	
5°	1379	1381	1375	1382	1384	131
15°	1318	1322	1325	1336	1339	372
25°	1198	1208	1221	1241	1245	552
35°	1036	1048	1073	1099	1107	646
45°	835	855	893	927	934	644
55°	622	650	697	734	741	558
65°	409	441	497	538	548	408
75°	208	248	312	354	364	220
85°	42	79	98	95	95	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1384.9	1384.9	1384.9	1384.9	<i>1384.9</i>
2.5°	<i>1386.1</i>	<i>1386.1</i>	<i>1379.8</i>	<i>1386.1</i>	<i>1387.3</i>
5°	1378.6	1381.1	1374.8	1382.4	<i>1383.6</i>
7.5°	1371.0	1371.0	1367.3	1374.8	<i>1376.2</i>
10°	1357.3	1358.5	1357.3	1366.1	<i>1367.3</i>
12.5°	1339.8	1342.2	1343.6	1352.3	<i>1353.5</i>
15°	1318.5	1322.3	1324.7	1336.0	<i>1338.6</i>
17.5°	1294.7	1298.5	1304.7	1317.2	<i>1319.7</i>
20°	1265.9	1270.9	1278.4	1294.7	<i>1298.5</i>
22.5°	1234.7	1239.6	1252.2	1267.1	<i>1273.4</i>
25°	1198.3	1208.3	1220.8	1240.8	<i>1244.6</i>
27.5°	1161.9	1170.7	1187.0	1208.3	<i>1213.4</i>
30°	1119.4	1133.1	1153.2	1174.5	<i>1179.4</i>
32.5°	1078.1	1091.8	1115.6	1138.3	<i>1144.4</i>
35°	1035.5	1048.0	1073.1	1099.3	<i>1106.9</i>
37.5°	986.6	1002.9	1030.5	1056.8	<i>1064.3</i>
40°	935.3	955.4	986.6	1014.2	<i>1023.0</i>
42.5°	886.5	907.7	939.1	969.1	<i>979.1</i>
45°	835.2	855.2	892.8	926.6	<i>934.1</i>
47.5°	782.5	805.2	845.1	878.9	<i>891.4</i>
50°	730.0	753.9	796.4	831.4	<i>838.9</i>
52.5°	677.4	702.4	747.5	785.1	<i>788.9</i>
55°	622.3	649.9	697.4	733.8	<i>741.3</i>
57.5°	572.2	596.1	647.3	684.9	<i>693.7</i>
60°	517.2	543.4	598.5	633.6	<i>644.8</i>
62.5°	464.5	492.1	549.7	584.7	<i>594.7</i>
65°	409.4	440.8	497.1	538.4	<i>548.4</i>
67.5°	361.9	391.9	452.0	492.1	<i>502.1</i>
70°	306.7	340.6	404.5	445.8	<i>455.8</i>
72.5°	259.2	294.2	358.1	398.1	<i>413.2</i>
75°	207.9	247.9	311.8	354.4	<i>364.3</i>
77.5°	157.8	204.1	269.1	301.7	<i>301.7</i>
80°	112.7	161.6	221.6	236.7	<i>239.1</i>
82.5°	73.9	121.4	164.0	162.8	<i>162.8</i>
85°	42.5	78.9	97.6	95.2	<i>95.2</i>
87.5°	16.3	32.6	35.0	35.0	<i>33.8</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)