

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: P732232

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732232  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P388488)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-40HE-SQR-B2750-W2D-3000K  
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SQR LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

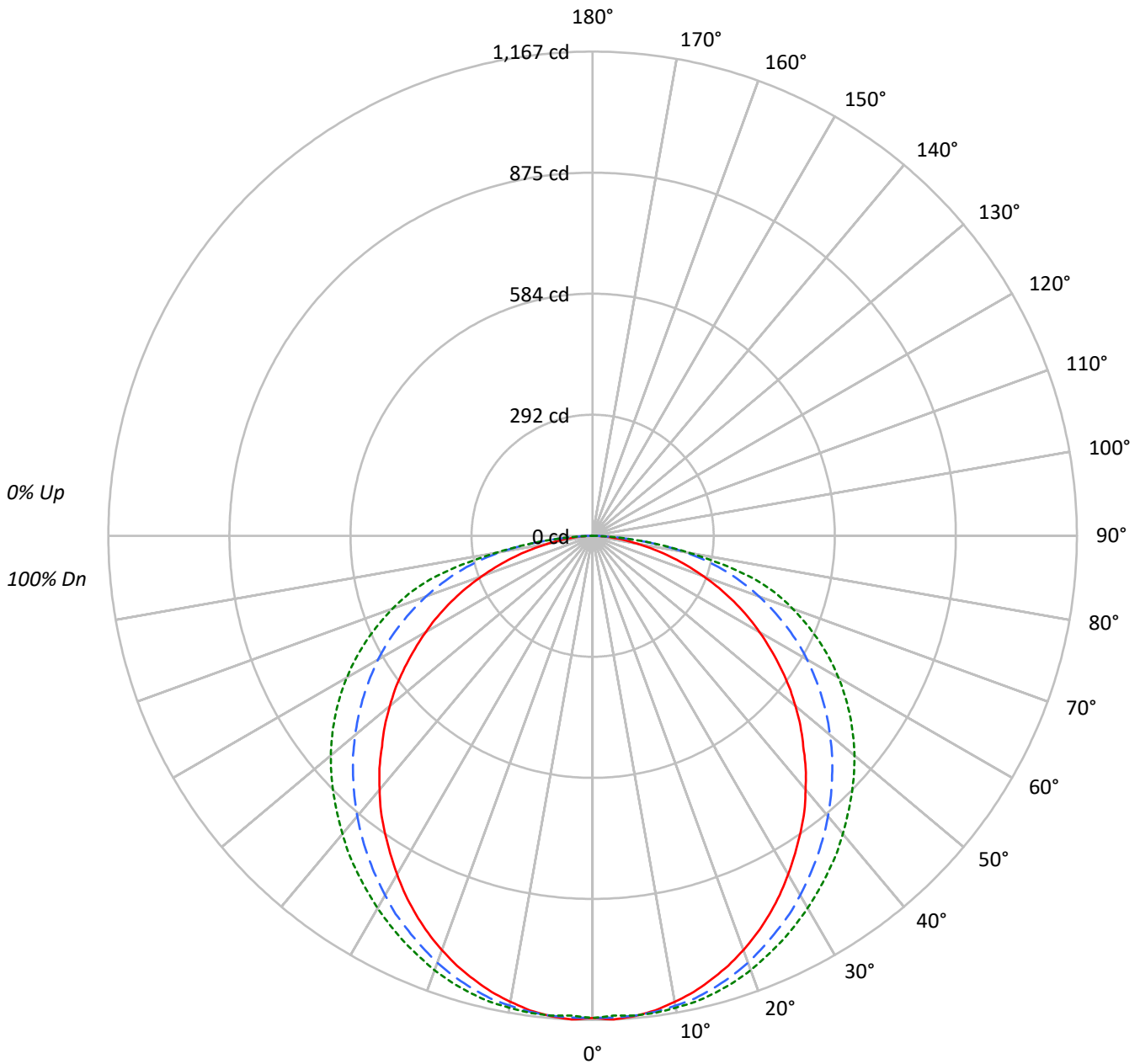
Lumens per Lamp: N/A  
Luminaire Lumens: 3636.0 lumens  
Efficiency: N/A  
Efficacy: 125.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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									
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	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82																			
2	98	89	81	75	95	87	80	74	83	78	73	80	75	71	77	73	69	67																			
3	89	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56																			
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	60	54	49	47																			
5	74	61	51	44	72	60	51	44	57	50	44	55	49	43	54	48	43	41																			
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35																			
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	30	28																			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25																			
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22																			

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

	0°	45°	90°
0°	1640	1640	1640
5°	1647	1645	1645
10°	1635	1649	1655
15°	1617	1649	1667
20°	1596	1645	1674
25°	1569	1636	1679
30°	1536	1630	1689
35°	1504	1626	1704
40°	1471	1626	1728
45°	1433	1629	1762
50°	1400	1640	1809
55°	1359	1657	1864
60°	1312	1684	1932
65°	1255	1716	2013
70°	1164	1759	2116
75°	1054	1820	2213
80°	888	1825	1903
85°	680	1380	1380



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.3	3.0
10°-20°	317.4	8.7
20°-30°	482.1	13.3
30°-40°	586.5	16.1
40°-50°	624.4	17.2
50°-60°	594.7	16.4
60°-70°	497.3	13.7
70°-80°	331.6	9.1
80°-90°	91.7	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°	909.9	25.0
0°-40°	1496.3	41.2
0°-60°	2715.4	74.7
0°-90°	3636.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3636.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1162	1162	1162	1162	1162	
5°	1162	1155	1161	1161	1161	110
15°	1107	1109	1129	1137	1141	312
25°	1007	1020	1051	1069	1078	464
35°	873	898	944	975	989	546
45°	718	756	816	862	883	555
55°	552	600	674	732	758	494
65°	376	431	514	578	603	371
75°	193	254	334	390	406	205
85°	42	78	85	84	85	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1162.2	1162.2	1162.2	1162.2	1162.2
2.5°	1167.0	1158.6	1162.2	1162.2	1157.5
5°	1162.2	1155.0	1161.1	1161.1	1161.1
7.5°	1153.9	1147.8	1157.5	1159.8	1159.8
10°	1140.6	1138.3	1150.3	1153.9	1155.0
12.5°	1126.3	1125.0	1141.9	1146.6	1150.3
15°	1106.9	1109.4	1128.6	1137.1	1140.6
17.5°	1086.7	1091.3	1113.0	1125.0	1128.6
20°	1062.6	1069.8	1095.1	1106.9	1114.3
22.5°	1036.3	1047.0	1073.4	1087.7	1096.2
25°	1007.4	1020.5	1050.6	1068.6	1078.2
27.5°	976.2	993.0	1027.8	1048.1	1057.8
30°	942.5	961.7	1000.2	1024.2	1036.3
32.5°	907.7	930.5	972.6	999.0	1013.3
35°	872.9	898.2	943.7	974.9	989.3
37.5°	838.1	863.2	913.8	947.3	965.4
40°	798.5	828.4	882.6	919.7	937.8
42.5°	760.1	792.4	850.1	890.8	910.2
45°	717.9	756.5	816.4	862.1	882.6
47.5°	679.5	717.9	782.8	830.9	853.7
50°	637.6	678.3	746.8	799.7	823.7
52.5°	596.7	638.8	710.8	767.2	791.3
55°	552.4	600.3	673.6	732.4	757.6
57.5°	507.9	559.6	635.1	696.4	721.7
60°	464.7	517.4	596.7	658.0	684.4
62.5°	421.5	474.2	557.1	619.5	644.8
65°	375.7	431.0	513.8	577.5	602.8
67.5°	330.2	387.8	470.6	534.3	558.3
70°	282.1	343.4	426.3	488.7	512.7
72.5°	237.8	299.0	380.6	441.9	464.7
75°	193.3	254.5	333.8	390.3	405.9
77.5°	150.1	211.3	282.1	319.4	323.0
80°	109.2	167.0	224.5	235.3	234.1
82.5°	73.2	124.8	154.9	156.0	159.6
85°	42.0	78.0	85.2	84.1	85.2
87.5°	16.9	27.6	24.0	17.9	17.9
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)