

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: P732257

Luminaire Tested: **24CZ2-45-SQR-B2750-W2D-3000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732257  
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: 24CZ2-45-SQR-B2750-W2D-3000K  
Description: 2X4 4500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SQR LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

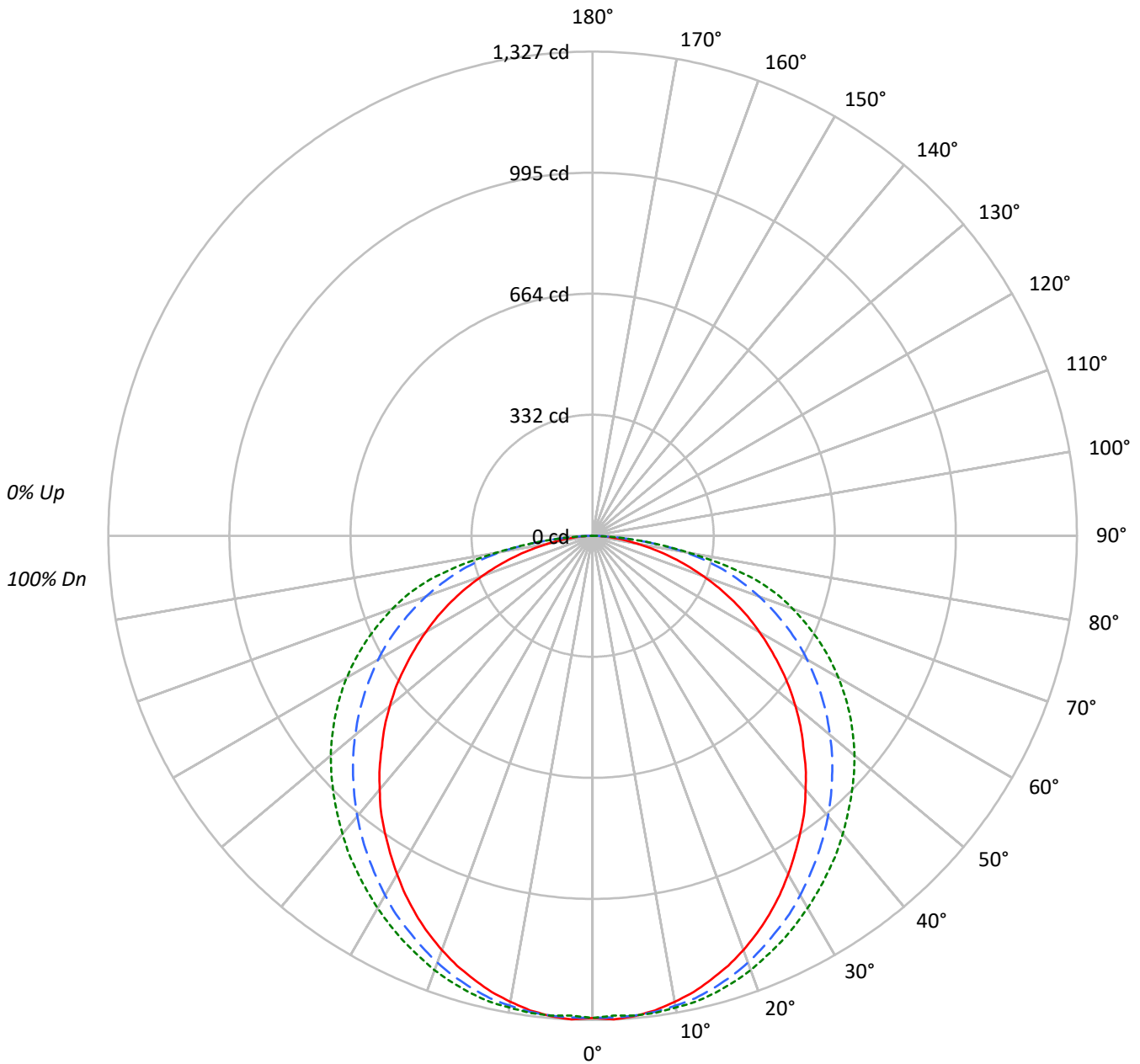
Lumens per Lamp: N/A  
Luminaire Lumens: 4134.0 lumens  
Efficiency: N/A  
Efficacy: 114.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 36  
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°	1865	1865	1865
5°	1872	1870	1870
10°	1859	1874	1882
15°	1839	1875	1895
20°	1815	1870	1903
25°	1784	1860	1909
30°	1746	1853	1920
35°	1710	1849	1938
40°	1673	1849	1964
45°	1629	1853	2003
50°	1592	1864	2056
55°	1545	1885	2119
60°	1491	1915	2196
65°	1427	1951	2289
70°	1324	2000	2406
75°	1199	2069	2516
80°	1009	2075	2163
85°	772	1569	1569



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.4	3.0
10°-20°	360.9	8.7
20°-30°	548.2	13.3
30°-40°	666.8	16.1
40°-50°	709.9	17.2
50°-60°	676.1	16.4
60°-70°	565.4	13.7
70°-80°	377.0	9.1
80°-90°	104.3	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°	1034.5	25.0
0°-40°	1701.3	41.2
0°-60°	3087.3	74.7
0°-90°	4134.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4134.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1321	1321	1321	1321	1321	
5°	1321	1313	1320	1320	1320	125
15°	1259	1261	1283	1293	1297	355
25°	1145	1160	1194	1215	1226	527
35°	992	1021	1073	1108	1125	621
45°	816	860	928	980	1003	631
55°	628	682	766	833	861	561
65°	427	490	584	657	685	422
75°	220	289	380	444	461	233
85°	48	89	97	96	97	58
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1321.4	1321.4	1321.4	1321.4	1321.4
2.5°	1326.9	1317.3	1321.4	1321.4	1316.0
5°	1321.4	1313.2	1320.1	1320.1	1320.1
7.5°	1312.0	1305.0	1316.0	1318.7	1318.7
10°	1296.9	1294.2	1307.9	1312.0	1313.2
12.5°	1280.6	1279.1	1298.3	1303.6	1307.9
15°	1258.6	1261.4	1283.2	1292.8	1296.9
17.5°	1235.5	1240.8	1265.5	1279.1	1283.2
20°	1208.2	1216.3	1245.1	1258.6	1266.9
22.5°	1178.2	1190.4	1220.4	1236.7	1246.3
25°	1145.4	1160.3	1194.5	1214.9	1225.9
27.5°	1109.9	1129.0	1168.6	1191.7	1202.7
30°	1071.6	1093.4	1137.2	1164.5	1178.2
32.5°	1032.0	1057.9	1105.8	1135.8	1152.1
35°	992.4	1021.2	1073.0	1108.5	1124.8
37.5°	952.9	981.4	1038.9	1077.1	1097.6
40°	907.8	941.9	1003.4	1045.7	1066.2
42.5°	864.2	900.9	966.5	1012.8	1034.8
45°	816.3	860.1	928.2	980.2	1003.4
47.5°	772.6	816.3	890.1	944.7	970.6
50°	724.9	771.2	849.1	909.2	936.6
52.5°	678.4	726.3	808.1	872.3	899.6
55°	628.0	682.5	765.9	832.8	861.3
57.5°	577.5	636.2	722.1	791.8	820.5
60°	528.3	588.3	678.4	748.1	778.1
62.5°	479.2	539.2	633.4	704.3	733.1
65°	427.2	490.0	584.2	656.6	685.3
67.5°	375.4	440.9	535.1	607.5	634.8
70°	320.8	390.5	484.7	555.7	583.0
72.5°	270.4	339.9	432.7	502.4	528.3
75°	219.8	289.4	379.5	443.7	461.4
77.5°	170.7	240.2	320.8	363.2	367.2
80°	124.2	189.8	255.3	267.5	266.1
82.5°	83.2	141.9	176.2	177.4	181.5
85°	47.7	88.7	96.9	95.6	96.9
87.5°	19.2	31.4	27.3	20.4	20.4
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)