

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: P732256

Luminaire Tested: **24CZ2-45-SQR-B2750-W2D-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732256  
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-2700K  
Description: 2X4 4500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND SQR LENS  
  
Light Source: -  
Ballast/Driver: -

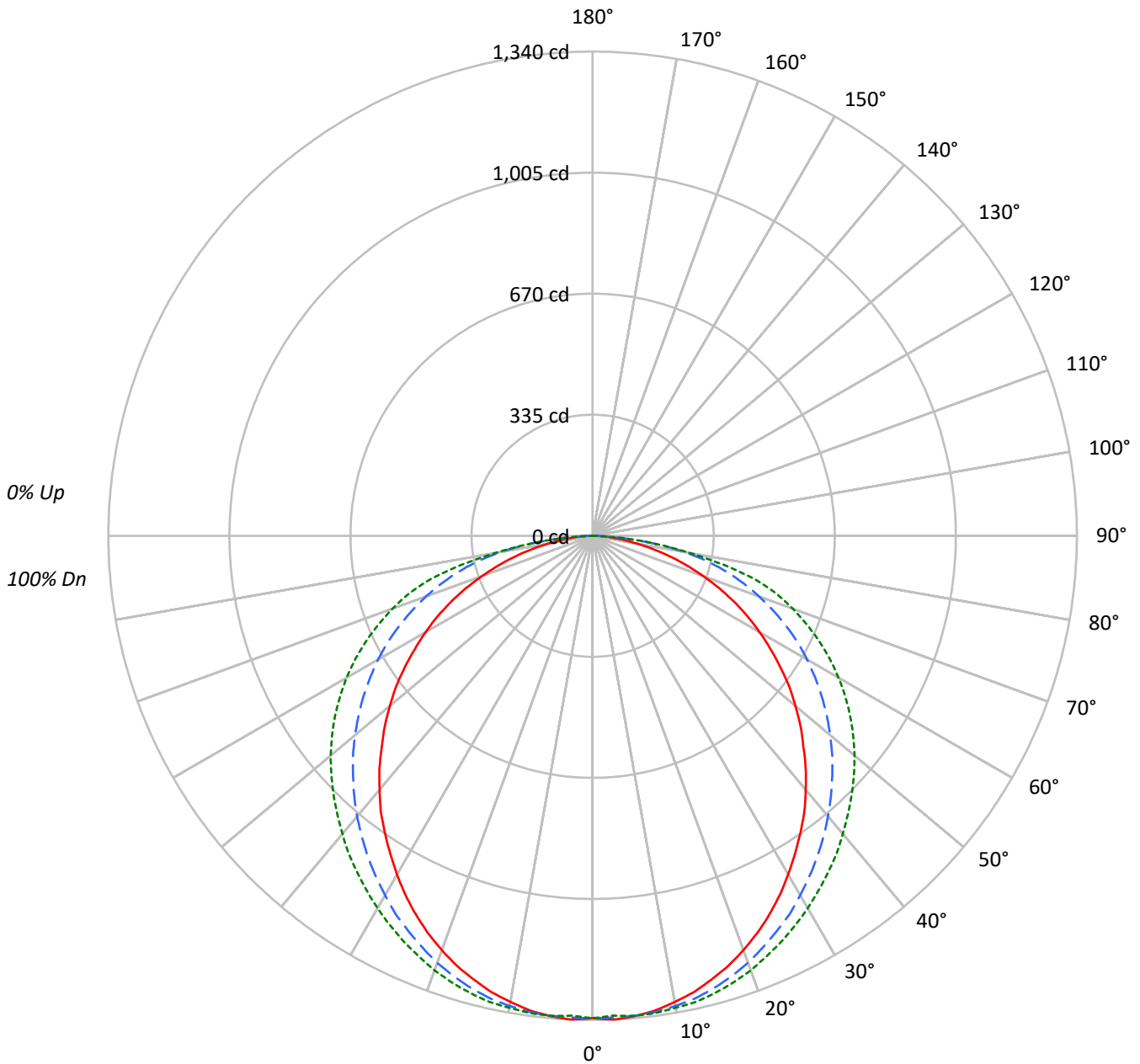
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4176.0 lumens  
Efficiency: N/A  
Efficacy: 116.0 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					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	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°	1884	1884	1884
5°	1891	1889	1889
10°	1877	1893	1901
15°	1858	1894	1914
20°	1833	1889	1922
25°	1802	1879	1928
30°	1764	1872	1940
35°	1727	1867	1958
40°	1689	1867	1984
45°	1646	1871	2023
50°	1608	1883	2077
55°	1561	1904	2141
60°	1506	1934	2219
65°	1441	1971	2312
70°	1337	2020	2430
75°	1211	2090	2542
80°	1019	2096	2185
85°	781	1585	1585



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.7	3.0
10°-20°	364.6	8.7
20°-30°	553.7	13.3
30°-40°	673.5	16.1
40°-50°	717.1	17.2
50°-60°	683.0	16.4
60°-70°	571.1	13.7
70°-80°	380.8	9.1
80°-90°	105.4	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°	1045.0	25.0
0°-40°	1718.5	41.2
0°-60°	3118.7	74.7
0°-90°	4176.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4176.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1335	1335	1335	1335	1335	
5°	1335	1326	1334	1334	1334	127
15°	1271	1274	1296	1306	1310	359
25°	1157	1172	1207	1227	1238	533
35°	1002	1032	1084	1120	1136	627
45°	825	869	938	990	1014	637
55°	634	689	774	841	870	567
65°	432	495	590	663	692	426
75°	222	292	383	448	466	235
85°	48	90	98	97	98	58
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1334.8	1334.8	1334.8	1334.8	1334.8
2.5°	1340.3	1330.7	1334.8	1334.8	1329.4
5°	1334.8	1326.5	1333.5	1333.5	1333.5
7.5°	1325.3	1318.3	1329.4	1332.1	1332.1
10°	1310.0	1307.4	1321.2	1325.3	1326.5
12.5°	1293.6	1292.1	1311.5	1316.9	1321.2
15°	1271.3	1274.2	1296.2	1305.9	1310.0
17.5°	1248.0	1253.4	1278.3	1292.1	1296.2
20°	1220.4	1228.7	1257.7	1271.3	1279.8
22.5°	1190.2	1202.5	1232.8	1249.3	1259.0
25°	1157.0	1172.1	1206.6	1227.3	1238.4
27.5°	1121.2	1140.5	1180.5	1203.8	1214.9
30°	1082.4	1104.5	1148.8	1176.4	1190.2
32.5°	1042.5	1068.6	1117.0	1147.3	1163.8
35°	1002.5	1031.6	1083.9	1119.7	1136.2
37.5°	962.6	991.4	1049.5	1088.0	1108.8
40°	917.0	951.4	1013.6	1056.3	1077.1
42.5°	872.9	910.0	976.4	1023.1	1045.4
45°	824.6	868.8	937.6	990.2	1013.6
47.5°	780.5	824.6	899.1	954.3	980.5
50°	732.3	779.0	857.7	918.5	946.1
52.5°	685.3	733.7	816.3	881.2	908.8
55°	634.4	689.4	773.7	841.2	870.1
57.5°	583.3	642.7	729.4	799.8	828.9
60°	533.7	594.3	685.3	755.7	786.0
62.5°	484.1	544.6	639.8	711.5	740.5
65°	431.5	495.0	590.1	663.3	692.3
67.5°	379.2	445.3	540.5	613.6	641.2
70°	324.0	394.4	489.6	561.3	588.9
72.5°	273.1	343.4	437.1	507.5	533.7
75°	222.0	292.3	383.3	448.2	466.1
77.5°	172.4	242.7	324.0	366.8	371.0
80°	125.4	191.8	257.9	270.3	268.8
82.5°	84.1	143.4	178.0	179.2	183.3
85°	48.2	89.6	97.9	96.6	97.9
87.5°	19.4	31.7	27.6	20.6	20.6
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)