

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: P732276

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732276  
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: 24CZ2-45HE-S-B2750-W2D-2700K  
Description: 2X4 4500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND SMOOTH LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

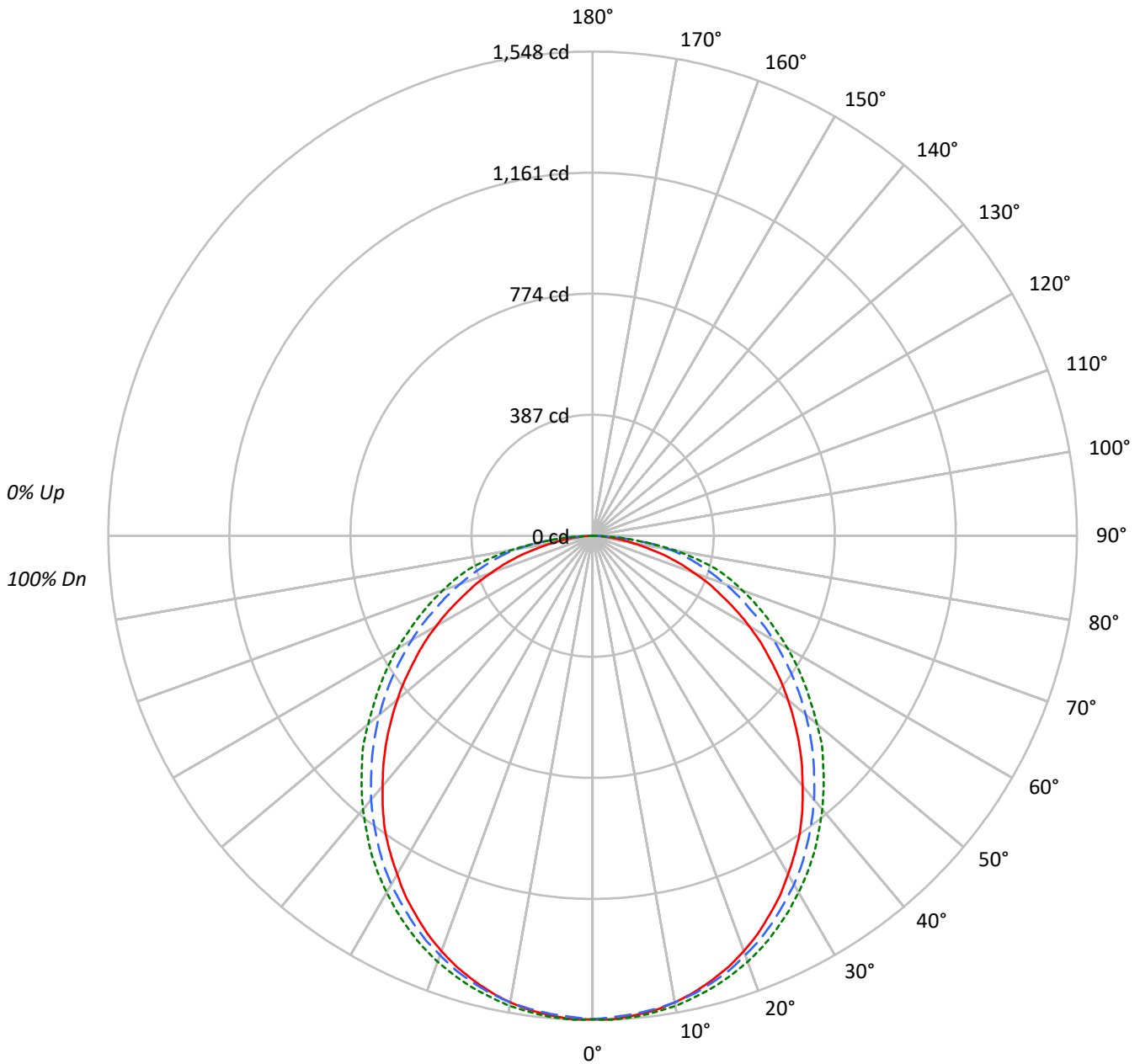
Lumens per Lamp: N/A  
Luminaire Lumens: 4400.0 lumens  
Efficiency: N/A  
Efficacy: 133.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 33  
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°	2182	2182	2182
5°	2180	2174	2188
10°	2171	2171	2187
15°	2150	2160	2183
20°	2122	2143	2177
25°	2083	2122	2163
30°	2036	2098	2145
35°	1991	2064	2129
40°	1923	2029	2104
45°	1861	1989	2081
50°	1789	1952	2056
55°	1709	1916	2036
60°	1629	1886	2031
65°	1526	1853	2044
70°	1412	1863	2099
75°	1265	1898	2218
80°	1022	2011	2169
85°	769	1763	1721



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.3	3.3
10°-20°	418.1	9.5
20°-30°	628.5	14.3
30°-40°	748.7	17.0
40°-50°	766.3	17.4
50°-60°	689.9	15.7
60°-70°	541.8	12.3
70°-80°	351.6	8.0
80°-90°	108.8	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°	1193.0	27.1
0°-40°	1941.7	44.1
0°-60°	3397.9	77.2
0°-90°	4400.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4400.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1546	1546	1546	1546	1546	
5°	1539	1542	1534	1543	1544	146
15°	1472	1476	1479	1491	1494	415
25°	1338	1349	1363	1385	1389	616
35°	1156	1170	1198	1227	1236	721
45°	932	955	996	1034	1043	719
55°	695	725	778	819	828	623
65°	457	492	555	601	612	455
75°	232	277	348	396	407	245
85°	48	88	109	106	106	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1545.8	1545.8	1545.8	1545.8	1545.8
2.5°	1547.2	1547.2	1540.1	1547.2	1548.5
5°	1538.7	1541.6	1534.5	1543.0	1544.3
7.5°	1530.3	1530.3	1526.1	1534.5	1536.1
10°	1515.0	1516.4	1515.0	1524.8	1526.1
12.5°	1495.5	1498.2	1499.7	1509.4	1510.8
15°	1471.7	1475.9	1478.6	1491.3	1494.1
17.5°	1445.1	1449.3	1456.2	1470.2	1473.1
20°	1413.0	1418.5	1426.9	1445.1	1449.3
22.5°	1378.1	1383.7	1397.6	1414.3	1421.4
25°	1337.5	1348.6	1362.6	1385.0	1389.2
27.5°	1296.9	1306.7	1324.9	1348.6	1354.4
30°	1249.5	1264.8	1287.2	1310.9	1316.5
32.5°	1203.3	1218.6	1245.2	1270.5	1277.4
35°	1155.8	1169.8	1197.8	1227.1	1235.5
37.5°	1101.3	1119.5	1150.3	1179.6	1188.0
40°	1044.0	1066.4	1101.3	1132.1	1141.9
42.5°	989.5	1013.2	1048.2	1081.7	1092.9
45°	932.2	954.6	996.5	1034.3	1042.7
47.5°	873.4	898.7	943.3	981.0	995.0
50°	814.8	841.4	888.9	928.0	936.4
52.5°	756.1	784.0	834.4	876.3	880.5
55°	694.6	725.4	778.5	819.0	827.5
57.5°	638.7	665.3	722.6	764.5	774.3
60°	577.2	606.5	668.0	707.2	719.7
62.5°	518.5	549.3	613.6	652.7	663.8
65°	457.0	492.0	554.8	601.0	612.1
67.5°	404.0	437.5	504.5	549.3	560.4
70°	342.3	380.2	451.5	497.6	508.7
72.5°	289.3	328.4	399.8	444.4	461.2
75°	232.0	276.7	348.1	395.5	406.7
77.5°	176.1	227.8	300.4	336.8	336.8
80°	125.8	180.3	247.4	264.2	266.9
82.5°	82.5	135.6	183.0	181.7	181.7
85°	47.5	88.1	108.9	106.3	106.3
87.5°	18.2	36.4	39.1	39.1	37.7
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)