

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: P732261

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732261  
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-B2750-W2D-2700K  
Description: 2X4 4500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND RIBBED LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

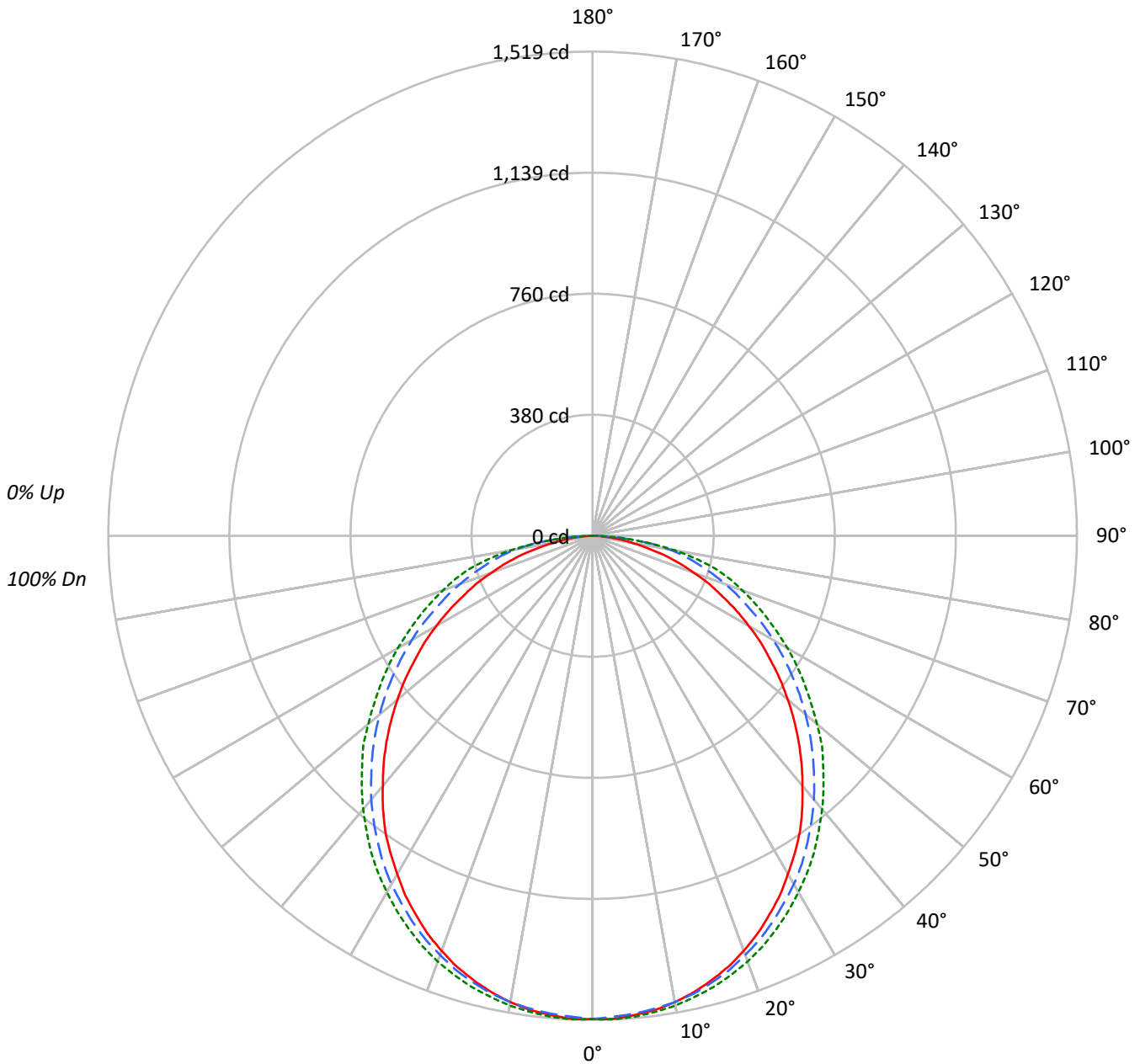
Lumens per Lamp: N/A  
Luminaire Lumens: 4315.0 lumens  
Efficiency: N/A  
Efficacy: 130.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	2140	2140	2140
5°	2138	2132	2146
10°	2129	2129	2145
15°	2109	2119	2141
20°	2081	2102	2135
25°	2043	2081	2122
30°	1997	2057	2104
35°	1953	2024	2087
40°	1886	1990	2063
45°	1825	1951	2041
50°	1755	1914	2016
55°	1676	1878	1997
60°	1598	1849	1992
65°	1497	1817	2005
70°	1385	1827	2059
75°	1241	1861	2175
80°	1003	1972	2127
85°	755	1729	1687



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.5	3.3
10°-20°	410.1	9.5
20°-30°	616.4	14.3
30°-40°	734.2	17.0
40°-50°	751.5	17.4
50°-60°	676.6	15.7
60°-70°	531.3	12.3
70°-80°	344.8	8.0
80°-90°	106.6	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°	1170.0	27.1
0°-40°	1904.2	44.1
0°-60°	3332.2	77.2
0°-90°	4315.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4315.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1516	1516	1516	1516	1516	
5°	1509	1512	1505	1513	1514	143
15°	1443	1447	1450	1462	1465	407
25°	1312	1323	1336	1358	1362	604
35°	1134	1147	1175	1203	1212	707
45°	914	936	977	1014	1022	705
55°	681	711	763	803	812	611
65°	448	482	544	589	600	446
75°	228	271	341	388	399	241
85°	47	86	107	104	104	56
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1516.0	1516.0	1516.0	1516.0	1516.0
2.5°	1517.3	1517.3	1510.3	1517.3	1518.6
5°	1509.0	1511.8	1504.9	1513.2	1514.5
7.5°	1500.8	1500.8	1496.6	1504.9	1506.4
10°	1485.7	1487.1	1485.7	1495.3	1496.6
12.5°	1466.6	1469.2	1470.7	1480.3	1481.6
15°	1443.3	1447.4	1450.1	1462.5	1465.3
17.5°	1417.2	1421.3	1428.1	1441.8	1444.6
20°	1385.7	1391.1	1399.4	1417.2	1421.3
22.5°	1351.5	1356.9	1370.6	1387.0	1393.9
25°	1311.7	1322.6	1336.3	1358.3	1362.4
27.5°	1271.9	1281.5	1299.3	1322.6	1328.2
30°	1225.3	1240.3	1262.3	1285.6	1291.0
32.5°	1180.1	1195.1	1221.2	1246.0	1252.7
35°	1133.5	1147.2	1174.6	1203.4	1211.6
37.5°	1080.0	1097.8	1128.1	1156.8	1165.0
40°	1023.8	1045.8	1080.0	1110.2	1119.8
42.5°	970.3	993.6	1028.0	1060.8	1071.7
45°	914.2	936.2	977.3	1014.3	1022.5
47.5°	856.6	881.3	925.1	962.1	975.8
50°	799.1	825.2	871.8	910.1	918.3
52.5°	741.5	768.9	818.3	859.4	863.5
55°	681.2	711.4	763.4	803.2	811.5
57.5°	626.4	652.5	708.6	749.7	759.3
60°	566.1	594.8	655.1	693.6	705.8
62.5°	508.5	538.7	601.8	640.1	651.0
65°	448.2	482.5	544.1	589.4	600.3
67.5°	396.2	429.0	494.8	538.7	549.6
70°	335.7	372.9	442.7	488.0	498.9
72.5°	283.7	322.0	392.0	435.8	452.3
75°	227.6	271.3	341.3	387.9	398.8
77.5°	172.7	223.4	294.6	330.3	330.3
80°	123.4	176.9	242.6	259.1	261.7
82.5°	80.9	132.9	179.5	178.2	178.2
85°	46.6	86.4	106.8	104.2	104.2
87.5°	17.8	35.7	38.3	38.3	37.0
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)