

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: P732077

Luminaire Tested: **22CZ2-44HE-S-B2750-W2D-3000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732077  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272009)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-44HE-S-B2750-W2D-3000K  
Description: 2X2 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SMOOTH LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

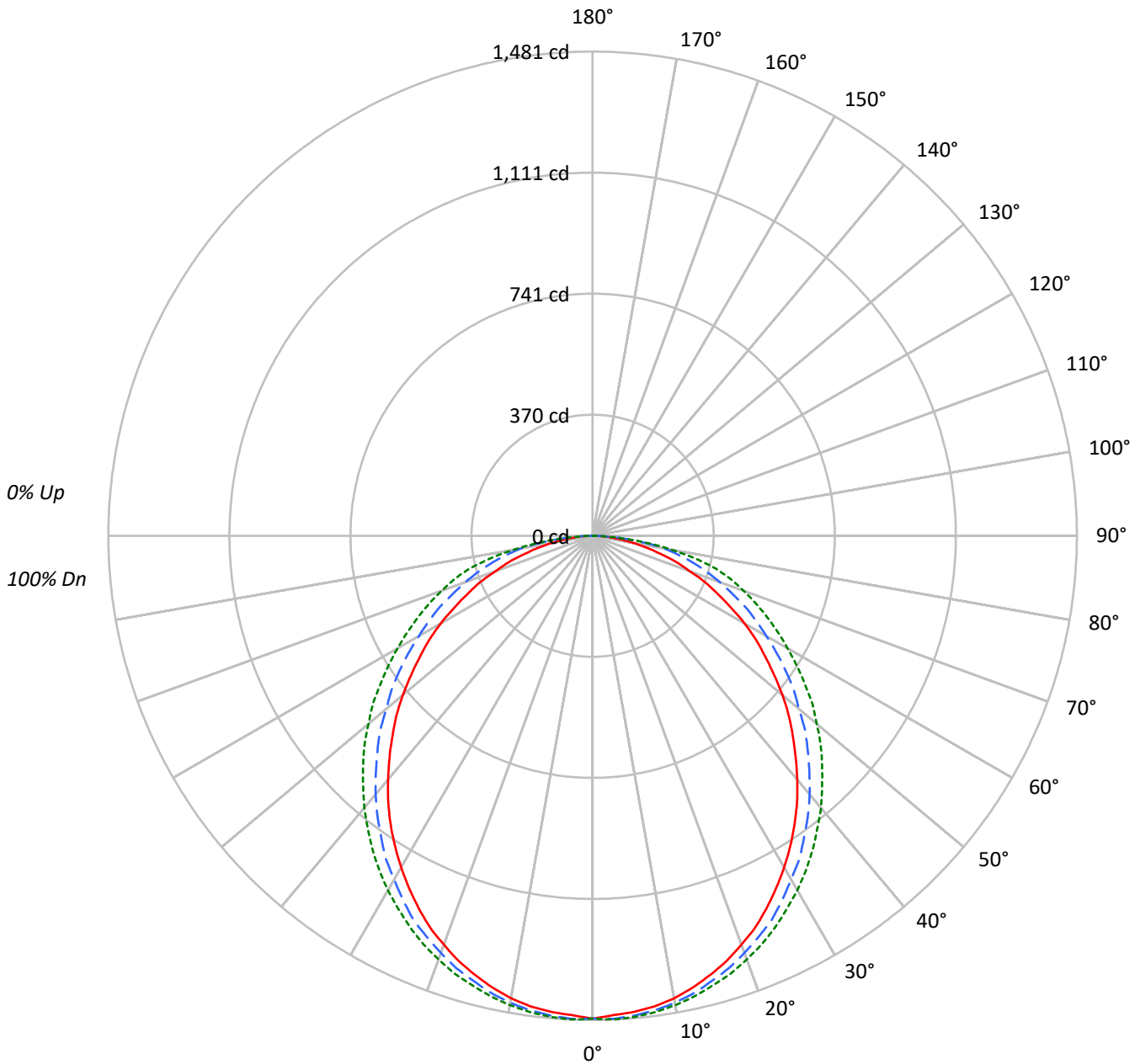
Lumens per Lamp: N/A  
Luminaire Lumens: 4122.0 lumens  
Efficiency: N/A  
Efficacy: 114.5 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.34  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

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	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83								
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69								
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58								
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49								
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43								
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37								
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33								
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30								
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27								
10	53	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24								

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

	0°	45°	90°
0°	4191	4191	4191
5°	4164	4196	4207
10°	4140	4178	4200
15°	4085	4141	4181
20°	4019	4100	4164
25°	3938	4059	4137
30°	3838	3976	4102
35°	3731	3904	4064
40°	3605	3826	4025
45°	3473	3735	3982
50°	3345	3634	3948
55°	3187	3568	3920
60°	3045	3482	3908
65°	2841	3461	3951
70°	2617	3431	4069
75°	2360	3479	4281
80°	2041	3584	4021
85°	1690	3002	3002



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.7	3.4
10°-20°	397.5	9.6
20°-30°	594.8	14.4
30°-40°	704.4	17.1
40°-50°	717.8	17.4
50°-60°	643.4	15.6
60°-70°	503.7	12.2
70°-80°	324.8	7.9
80°-90°	95.9	2.3
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°	1132.0	27.5
0°-40°	1836.3	44.5
0°-60°	3197.6	77.6
0°-90°	4122.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4122.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1477	1477	1477	1477	1477	
5°	1462	1466	1473	1475	1477	139
15°	1391	1398	1410	1421	1423	392
25°	1258	1269	1296	1314	1321	579
35°	1077	1090	1127	1162	1173	673
45°	865	885	931	979	992	668
55°	644	665	721	771	792	578
65°	423	448	516	566	588	420
75°	215	248	317	371	390	231
85°	52	71	92	92	92	61
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1477.1	1477.1	1477.1	1477.1	1477.1
2.5°	1467.3	1471.3	1478.9	1481.0	1481.0
5°	1461.8	1465.5	1473.1	1475.2	1477.1
7.5°	1452.0	1453.9	1463.6	1467.3	1469.4
10°	1436.7	1440.4	1450.2	1456.0	1457.8
12.5°	1415.4	1421.2	1432.8	1440.4	1442.5
15°	1390.6	1398.3	1409.6	1421.2	1423.3
17.5°	1363.5	1371.4	1386.7	1400.1	1404.1
20°	1330.8	1340.5	1357.7	1373.2	1379.0
22.5°	1298.1	1305.8	1327.1	1346.3	1352.1
25°	1257.8	1269.4	1296.3	1313.7	1321.3
27.5°	1215.4	1228.8	1256.0	1278.9	1286.5
30°	1171.4	1184.8	1213.5	1242.5	1252.0
32.5°	1125.0	1140.5	1175.1	1204.0	1213.5
35°	1077.0	1090.5	1127.1	1161.6	1173.2
37.5°	1027.0	1038.6	1081.0	1117.4	1128.9
40°	973.2	988.5	1032.8	1075.2	1086.5
42.5°	919.2	936.6	980.8	1027.0	1038.6
45°	865.4	884.7	930.8	979.0	992.4
47.5°	813.5	828.8	881.0	927.1	946.3
50°	757.7	773.2	823.2	875.2	894.4
52.5°	699.9	721.3	775.0	825.1	848.0
55°	644.3	665.4	721.3	771.3	792.4
57.5°	592.4	609.6	667.3	719.2	740.5
60°	536.5	552.1	613.5	669.3	688.6
62.5°	477.0	499.9	563.4	615.3	638.5
65°	423.2	448.0	515.5	565.5	588.5
67.5°	373.1	396.1	461.7	515.5	540.5
70°	315.4	346.3	413.5	467.2	490.4
72.5°	269.3	296.2	365.5	419.3	444.3
75°	215.3	248.0	317.3	371.3	390.5
77.5°	171.3	204.0	269.3	311.5	321.2
80°	124.9	157.6	219.3	240.3	246.1
82.5°	84.6	115.4	157.6	163.4	165.5
85°	51.9	71.2	92.2	92.2	92.2
87.5°	25.0	28.7	32.7	30.8	30.8
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)