

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: P842977

Luminaire Tested: **22CZ2-44HE-UNV-B35**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P842977  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P271965)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-44HE-UNV-B35  
Description: 2X2 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RIBBED LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

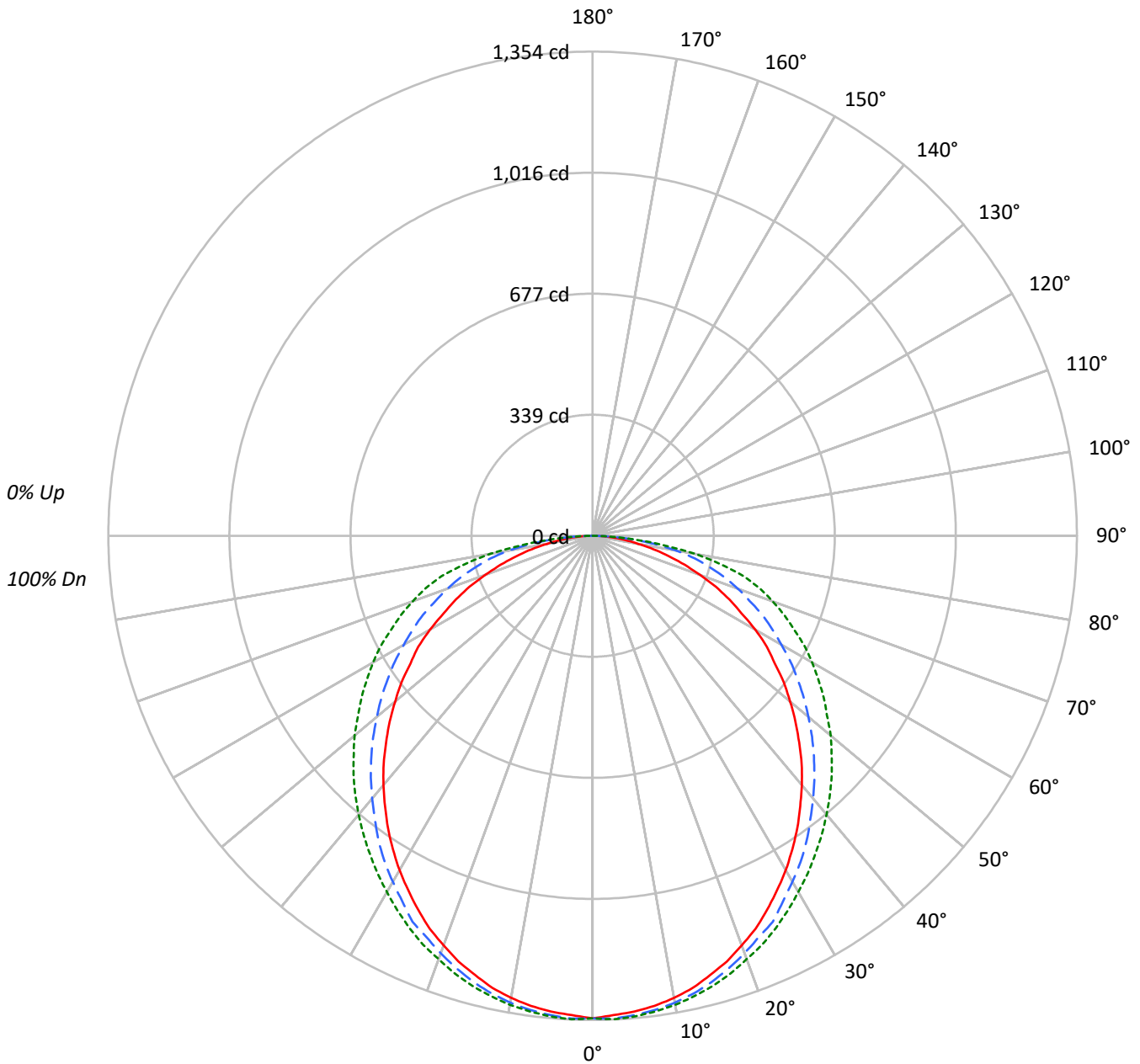
Lumens per Lamp: N/A  
Luminaire Lumens: 3969.0 lumens  
Efficiency: N/A  
Efficacy: 110.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

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									
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	101	96	93	96	93	90	92	90	87	89	86	84	82																			
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68																			
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56																			
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48																			
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36																			
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32																			
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28																			
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25																			
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23																			

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

	0°	45°	90°
0°	3829	3829	3829
5°	3805	3832	3844
10°	3781	3821	3837
15°	3735	3792	3827
20°	3680	3751	3804
25°	3614	3730	3791
30°	3539	3661	3769
35°	3457	3612	3762
40°	3371	3552	3769
45°	3276	3511	3793
50°	3181	3474	3837
55°	3073	3459	3903
60°	2981	3458	4023
65°	2831	3514	4170
70°	2642	3581	4440
75°	2421	3706	4796
80°	2108	3861	4722
85°	1846	3432	3754



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.6	3.2
10°-20°	363.5	9.2
20°-30°	545.7	13.7
30°-40°	652.1	16.4
40°-50°	678.1	17.1
50°-60°	628.5	15.8
60°-70°	515.5	13.0
70°-80°	348.5	8.8
80°-90°	109.5	2.8
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°	1036.9	26.1
0°-40°	1688.9	42.6
0°-60°	2995.5	75.5
0°-90°	3969.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3969.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1350	1350	1350	1350	1350	
5°	1336	1338	1346	1348	1350	127
15°	1271	1277	1291	1299	1303	359
25°	1154	1164	1191	1205	1211	532
35°	998	1012	1043	1074	1086	624
45°	816	832	875	926	945	630
55°	621	641	699	762	789	558
65°	422	445	523	592	621	417
75°	221	258	338	406	438	234
85°	57	78	105	117	115	64
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1349.5	1349.5	1349.5	1349.5	1349.5
2.5°	1341.7	1345.5	1351.4	1353.5	1353.5
5°	1335.8	1337.7	1345.5	1347.6	1349.5
7.5°	1326.0	1330.0	1337.7	1339.8	1341.7
10°	1312.3	1316.3	1326.0	1330.0	1331.8
12.5°	1294.9	1298.7	1310.4	1316.3	1318.2
15°	1271.4	1277.2	1290.9	1298.7	1302.7
17.5°	1248.1	1253.7	1267.6	1279.1	1283.1
20°	1218.6	1232.3	1242.2	1257.7	1259.6
22.5°	1189.5	1197.2	1214.6	1230.4	1238.2
25°	1154.2	1164.0	1191.3	1205.0	1210.9
27.5°	1117.2	1130.9	1152.3	1173.7	1181.5
30°	1080.0	1089.7	1117.2	1142.4	1150.4
32.5°	1039.1	1052.7	1081.9	1107.3	1119.1
35°	997.9	1011.5	1042.8	1074.1	1085.9
37.5°	953.2	968.7	1000.0	1037.0	1052.7
40°	910.1	921.9	958.8	1003.8	1017.4
42.5°	865.1	878.8	917.9	966.8	982.4
45°	816.4	832.0	875.0	925.6	945.2
47.5°	769.4	785.1	832.0	882.8	906.1
50°	720.6	740.2	787.0	845.6	869.1
52.5°	673.8	691.5	744.2	804.7	826.1
55°	621.1	640.6	699.2	761.6	788.9
57.5°	578.0	591.7	656.2	720.6	747.9
60°	525.3	543.0	609.3	677.6	708.9
62.5°	468.8	498.0	566.3	636.6	667.9
65°	421.7	445.3	523.4	591.7	621.1
67.5°	373.0	398.4	474.5	547.0	580.1
70°	318.4	351.6	431.6	503.9	535.2
72.5°	269.5	304.8	386.7	457.1	490.2
75°	220.8	257.7	338.0	406.2	437.5
77.5°	173.9	214.9	293.0	345.7	365.3
80°	129.0	168.0	236.3	273.5	289.0
82.5°	89.9	123.1	173.9	193.5	197.2
85°	56.7	78.1	105.4	117.2	115.3
87.5°	25.4	31.3	39.1	43.1	41.0
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)