

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: P843003

Luminaire Tested: **24CZ2-30HE-S-UNV-B50**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P843003  
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: 24CZ2-30HE-S-UNV-B50  
Description: 2X4 3000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SMOOTH LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

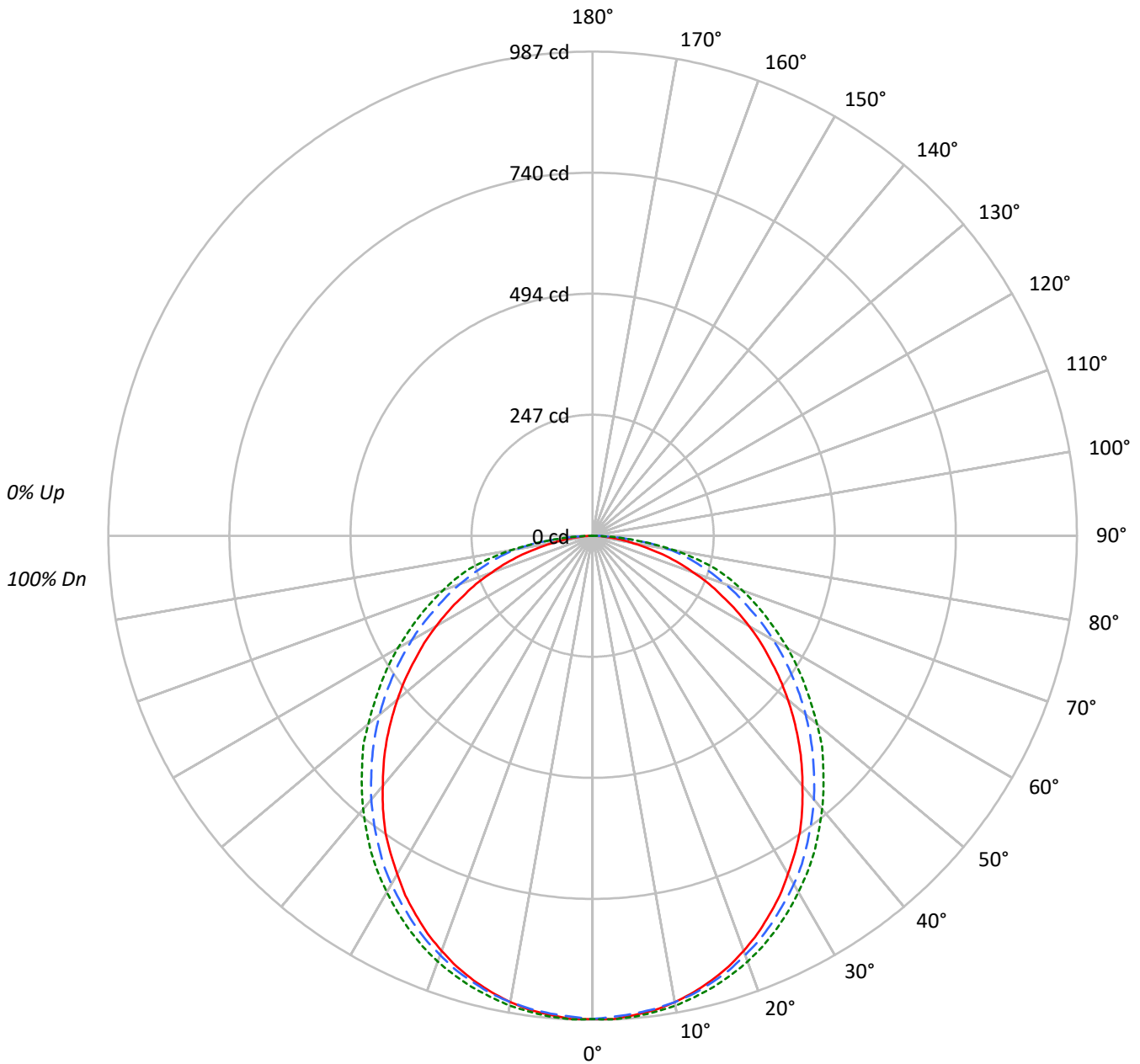
Lumens per Lamp: N/A  
Luminaire Lumens: 2804.0 lumens  
Efficiency: N/A  
Efficacy: 127.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 22  
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°	1390	1390	1390
5°	1389	1385	1394
10°	1384	1384	1394
15°	1370	1377	1391
20°	1352	1366	1387
25°	1327	1352	1379
30°	1298	1337	1367
35°	1269	1315	1356
40°	1226	1293	1341
45°	1186	1268	1326
50°	1140	1244	1310
55°	1089	1221	1297
60°	1038	1202	1294
65°	972	1181	1303
70°	900	1187	1338
75°	806	1209	1413
80°	652	1281	1383
85°	491	1124	1096



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.3	3.3
10°-20°	266.5	9.5
20°-30°	400.6	14.3
30°-40°	477.1	17.0
40°-50°	488.3	17.4
50°-60°	439.6	15.7
60°-70°	345.2	12.3
70°-80°	224.1	8.0
80°-90°	69.3	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°	760.3	27.1
0°-40°	1237.4	44.1
0°-60°	2165.4	77.2
0°-90°	2804.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2804.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	985	985	985	985	985	
5°	981	982	978	983	984	93
15°	938	941	942	950	952	264
25°	852	859	868	883	885	393
35°	737	746	763	782	787	459
45°	594	608	635	659	664	458
55°	443	462	496	522	527	397
65°	291	314	354	383	390	290
75°	148	176	222	252	259	156
85°	30	56	69	68	68	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	985.1	985.1	985.1	985.1	985.1
2.5°	986.0	986.0	981.5	986.0	986.8
5°	980.6	982.4	977.9	983.3	984.1
7.5°	975.2	975.2	972.6	977.9	978.9
10°	965.5	966.3	965.5	971.7	972.6
12.5°	953.0	954.7	955.7	961.9	962.8
15°	937.9	940.6	942.3	950.3	952.2
17.5°	920.9	923.6	928.0	936.9	938.8
20°	900.4	904.0	909.3	920.9	923.6
22.5°	878.2	881.8	890.7	901.3	905.8
25°	852.4	859.4	868.4	882.6	885.3
27.5°	826.5	832.7	844.3	859.4	863.1
30°	796.2	806.0	820.3	835.4	839.0
32.5°	766.8	776.6	793.6	809.7	814.1
35°	736.6	745.5	763.3	782.0	787.3
37.5°	701.8	713.4	733.0	751.7	757.1
40°	665.3	679.6	701.8	721.4	727.7
42.5°	630.6	645.7	668.0	689.4	696.4
45°	594.1	608.3	635.1	659.1	664.5
47.5°	556.6	572.7	601.2	625.2	634.1
50°	519.3	536.2	566.5	591.4	596.8
52.5°	481.8	499.6	531.7	558.4	561.1
55°	442.7	462.3	496.1	522.0	527.3
57.5°	407.0	424.0	460.5	487.2	493.4
60°	367.9	386.5	425.7	450.7	458.6
62.5°	330.4	350.0	391.0	415.9	423.0
65°	291.2	313.6	353.6	383.0	390.1
67.5°	257.4	278.8	321.5	350.0	357.1
70°	218.2	242.3	287.7	317.1	324.2
72.5°	184.4	209.3	254.8	283.2	293.9
75°	147.9	176.3	221.8	252.1	259.2
77.5°	112.2	145.2	191.4	214.6	214.6
80°	80.2	114.9	157.6	168.4	170.1
82.5°	52.6	86.4	116.6	115.8	115.8
85°	30.3	56.1	69.4	67.7	67.7
87.5°	11.6	23.2	24.9	24.9	24.0
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)