

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: P843005

Luminaire Tested: **24CZ2-30HE-SQR-UNV-B40**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P843005  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P388488)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-30HE-SQR-UNV-B40  
Description: 2X4 3000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SQR LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

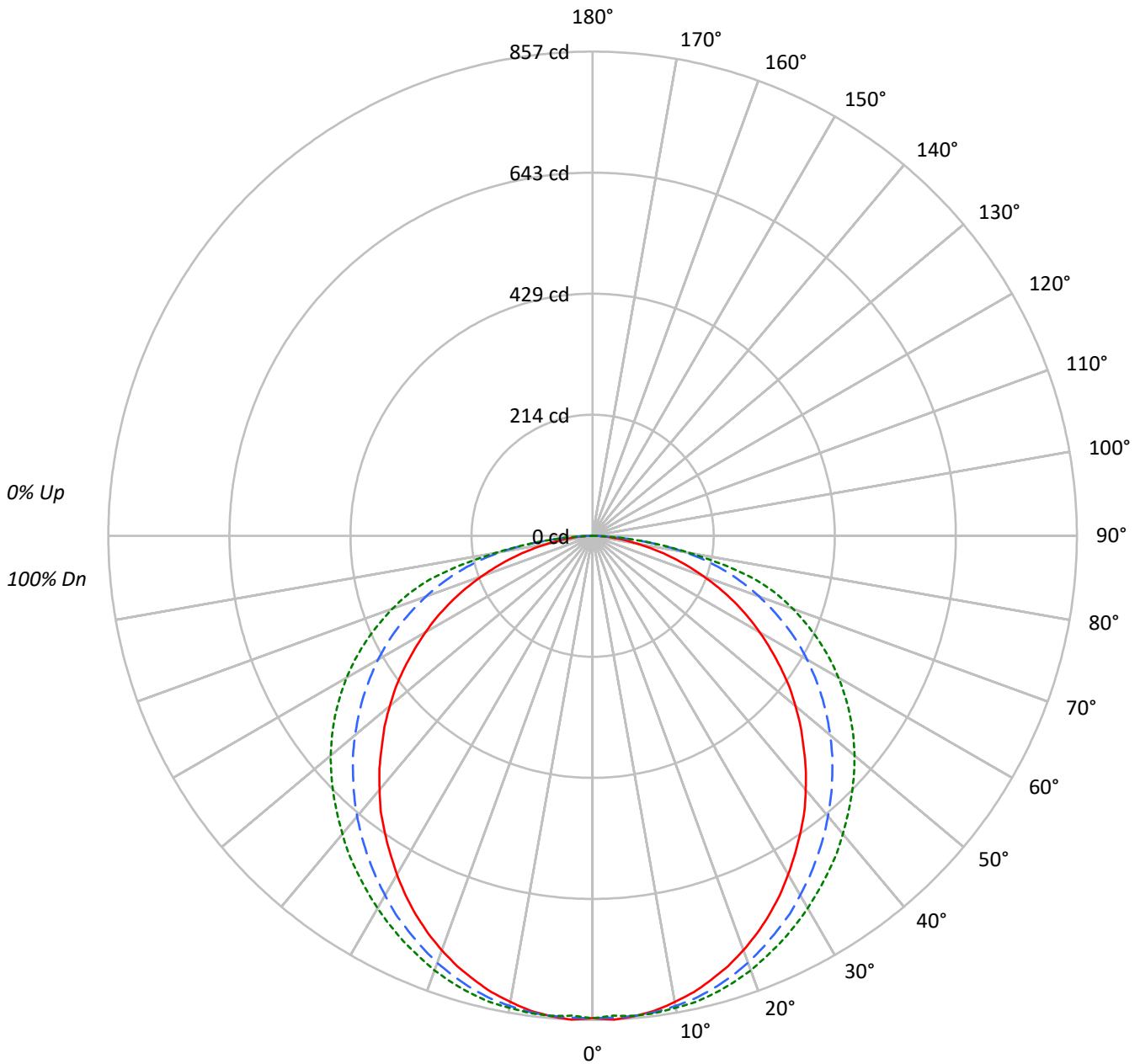
Lumens per Lamp: N/A  
Luminaire Lumens: 2671.0 lumens  
Efficiency: N/A  
Efficacy: 121.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P843005

CATALOG NUMBER: 24CZ2-30HE-SQR-UNV-B40

### 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	100	96	92	96	93	89	92	89	87	89	86	84	82																			
2	98	89	81	75	95	87	80	74	83	78	73	80	75	71	77	73	69	67																			
3	89	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56																			
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	60	54	49	47																			
5	74	61	51	44	72	60	51	44	57	50	44	55	49	43	54	48	43	41																			
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35																			
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	30	28																			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25																			
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22																			

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

	0°	45°	90°
0°	1205	1205	1205
5°	1209	1208	1208
10°	1201	1211	1216
15°	1188	1211	1224
20°	1172	1208	1229
25°	1152	1202	1233
30°	1128	1197	1241
35°	1105	1195	1252
40°	1081	1194	1269
45°	1053	1197	1294
50°	1028	1205	1329
55°	999	1218	1369
60°	964	1237	1419
65°	922	1261	1479
70°	855	1292	1554
75°	774	1337	1626
80°	652	1340	1397
85°	499	1014	1014



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.0	3.0
10°-20°	233.2	8.7
20°-30°	354.2	13.3
30°-40°	430.8	16.1
40°-50°	458.7	17.2
50°-60°	436.9	16.4
60°-70°	365.3	13.7
70°-80°	243.6	9.1
80°-90°	67.4	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°	668.4	25.0
0°-40°	1099.2	41.2
0°-60°	1994.7	74.7
0°-90°	2671.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2671.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	854	854	854	854	854	
5°	854	848	853	853	853	81
15°	813	815	829	835	838	229
25°	740	750	772	785	792	341
35°	641	660	693	716	727	401
45°	527	556	600	633	648	408
55°	406	441	495	538	556	363
65°	276	317	378	424	443	273
75°	142	187	245	287	298	150
85°	31	57	63	62	63	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	853.7	853.7	853.7	853.7	853.7
2.5°	857.3	851.1	853.7	853.7	850.3
5°	853.7	848.5	852.9	852.9	852.9
7.5°	847.7	843.2	850.3	852.0	852.0
10°	837.9	836.2	845.0	847.7	848.5
12.5°	827.4	826.5	838.8	842.3	845.0
15°	813.2	815.0	829.1	835.3	837.9
17.5°	798.3	801.7	817.6	826.5	829.1
20°	780.6	785.9	804.4	813.2	818.5
22.5°	761.2	769.1	788.5	799.1	805.2
25°	740.0	749.7	771.8	785.0	792.1
27.5°	717.1	729.5	755.0	769.9	777.0
30°	692.3	706.4	734.8	752.4	761.2
32.5°	666.8	683.5	714.5	733.8	744.4
35°	641.2	659.8	693.3	716.2	726.7
37.5°	615.7	634.1	671.3	695.9	709.2
40°	586.5	608.5	648.3	675.6	688.9
42.5°	558.3	582.1	624.5	654.4	668.6
45°	527.4	555.7	599.7	633.3	648.3
47.5°	499.2	527.4	575.1	610.4	627.1
50°	468.4	498.3	548.6	587.5	605.1
52.5°	438.3	469.3	522.1	563.6	581.3
55°	405.8	441.0	494.8	538.1	556.5
57.5°	373.1	411.0	466.5	511.6	530.1
60°	341.4	380.1	438.3	483.4	502.7
62.5°	309.6	348.3	409.2	455.1	473.6
65°	276.0	316.6	377.5	424.2	442.8
67.5°	242.5	284.8	345.7	392.5	410.1
70°	207.2	252.3	313.2	359.0	376.7
72.5°	174.7	219.6	279.6	324.6	341.4
75°	142.0	187.0	245.2	286.7	298.1
77.5°	110.3	155.2	207.2	234.6	237.3
80°	80.2	122.6	164.9	172.9	171.9
82.5°	53.8	91.7	113.8	114.6	117.3
85°	30.8	57.3	62.6	61.8	62.6
87.5°	12.4	20.3	17.7	13.2	13.2
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)