

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: P842989

Luminaire Tested: **24CZ2-30-SQR-UNV-B35**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P842989  
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: 24CZ2-30-SQR-UNV-B35  
Description: 2X4 3000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SQR LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

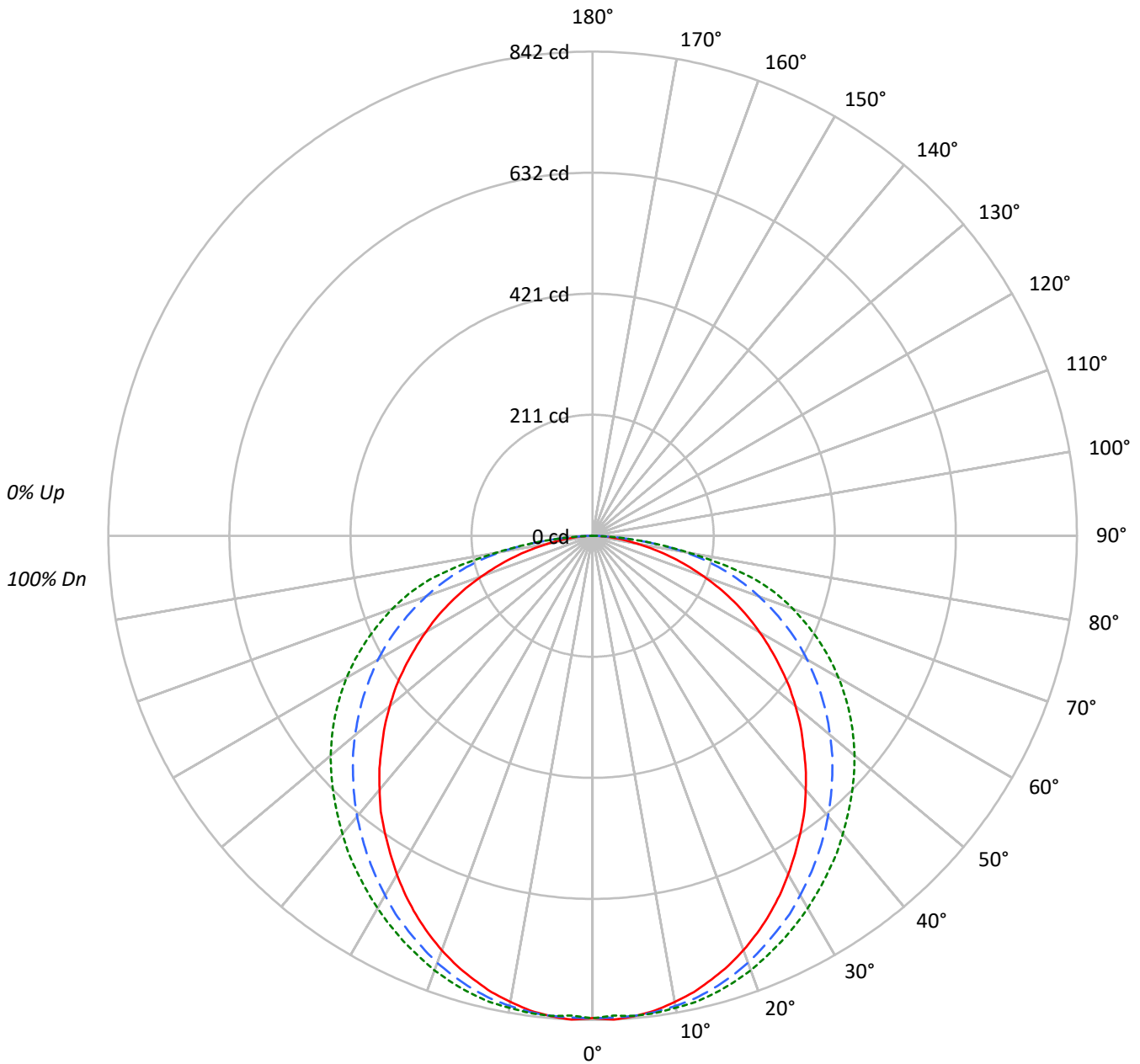
Lumens per Lamp: N/A  
Luminaire Lumens: 2624.0 lumens  
Efficiency: N/A  
Efficacy: 114.1 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 23  
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	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°	1184	1184	1184
5°	1188	1187	1187
10°	1180	1190	1194
15°	1167	1190	1203
20°	1152	1187	1208
25°	1132	1181	1212
30°	1109	1176	1219
35°	1085	1173	1230
40°	1062	1173	1247
45°	1034	1176	1271
50°	1010	1183	1305
55°	981	1196	1345
60°	946	1215	1394
65°	906	1238	1453
70°	840	1269	1527
75°	761	1314	1597
80°	640	1317	1373
85°	491	996	996



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.6	3.0
10°-20°	229.1	8.7
20°-30°	347.9	13.3
30°-40°	423.2	16.1
40°-50°	450.6	17.2
50°-60°	429.2	16.4
60°-70°	358.9	13.7
70°-80°	239.3	9.1
80°-90°	66.2	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°	656.6	25.0
0°-40°	1079.8	41.2
0°-60°	1959.6	74.7
0°-90°	2624.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2624.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	839	839	839	839	839	
5°	839	834	838	838	838	80
15°	799	801	814	821	823	225
25°	727	736	758	771	778	335
35°	630	648	681	704	714	394
45°	518	546	589	622	637	401
55°	399	433	486	529	547	356
65°	271	311	371	417	435	268
75°	140	184	241	282	293	148
85°	30	56	62	61	62	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	838.7	838.7	838.7	838.7	838.7
2.5°	842.2	836.1	838.7	838.7	835.3
5°	838.7	833.5	837.9	837.9	837.9
7.5°	832.7	828.4	835.3	837.0	837.0
10°	823.2	821.5	830.2	832.7	833.5
12.5°	812.8	811.9	824.1	827.5	830.2
15°	798.8	800.7	814.5	820.6	823.2
17.5°	784.2	787.6	803.2	811.9	814.5
20°	766.9	772.0	790.3	798.8	804.1
22.5°	747.8	755.6	774.6	785.0	791.1
25°	727.0	736.5	758.2	771.1	778.1
27.5°	704.5	716.6	741.8	756.4	763.4
30°	680.2	694.0	721.8	739.2	747.8
32.5°	655.0	671.5	701.9	720.9	731.3
35°	629.9	648.2	681.1	703.6	713.9
37.5°	604.8	623.0	659.4	683.6	696.7
40°	576.2	597.8	636.9	663.7	676.8
42.5°	548.5	571.8	613.5	642.9	656.8
45°	518.1	545.9	589.2	622.2	636.9
47.5°	490.4	518.1	565.0	599.6	616.1
50°	460.1	489.5	538.9	577.1	594.5
52.5°	430.6	461.0	512.9	553.7	571.0
55°	398.6	433.2	486.1	528.6	546.7
57.5°	366.5	403.8	458.3	502.6	520.8
60°	335.3	373.4	430.6	474.9	493.9
62.5°	304.2	342.2	402.0	447.1	465.3
65°	271.2	311.0	370.8	416.8	435.0
67.5°	238.3	279.8	339.6	385.6	402.9
70°	203.6	247.9	307.6	352.7	370.0
72.5°	171.6	215.8	274.7	318.9	335.3
75°	139.5	183.7	240.9	281.6	292.9
77.5°	108.3	152.5	203.6	230.5	233.1
80°	78.8	120.5	162.0	169.8	168.9
82.5°	52.8	90.1	111.8	112.6	115.2
85°	30.3	56.3	61.5	60.7	61.5
87.5°	12.2	19.9	17.3	13.0	13.0
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)