

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: P732135

Luminaire Tested: **24CZ2-30HE-SQR-B2750-W2D-5000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732135  
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-B2750-W2D-5000K  
Description: 2X4 3000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SQR LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

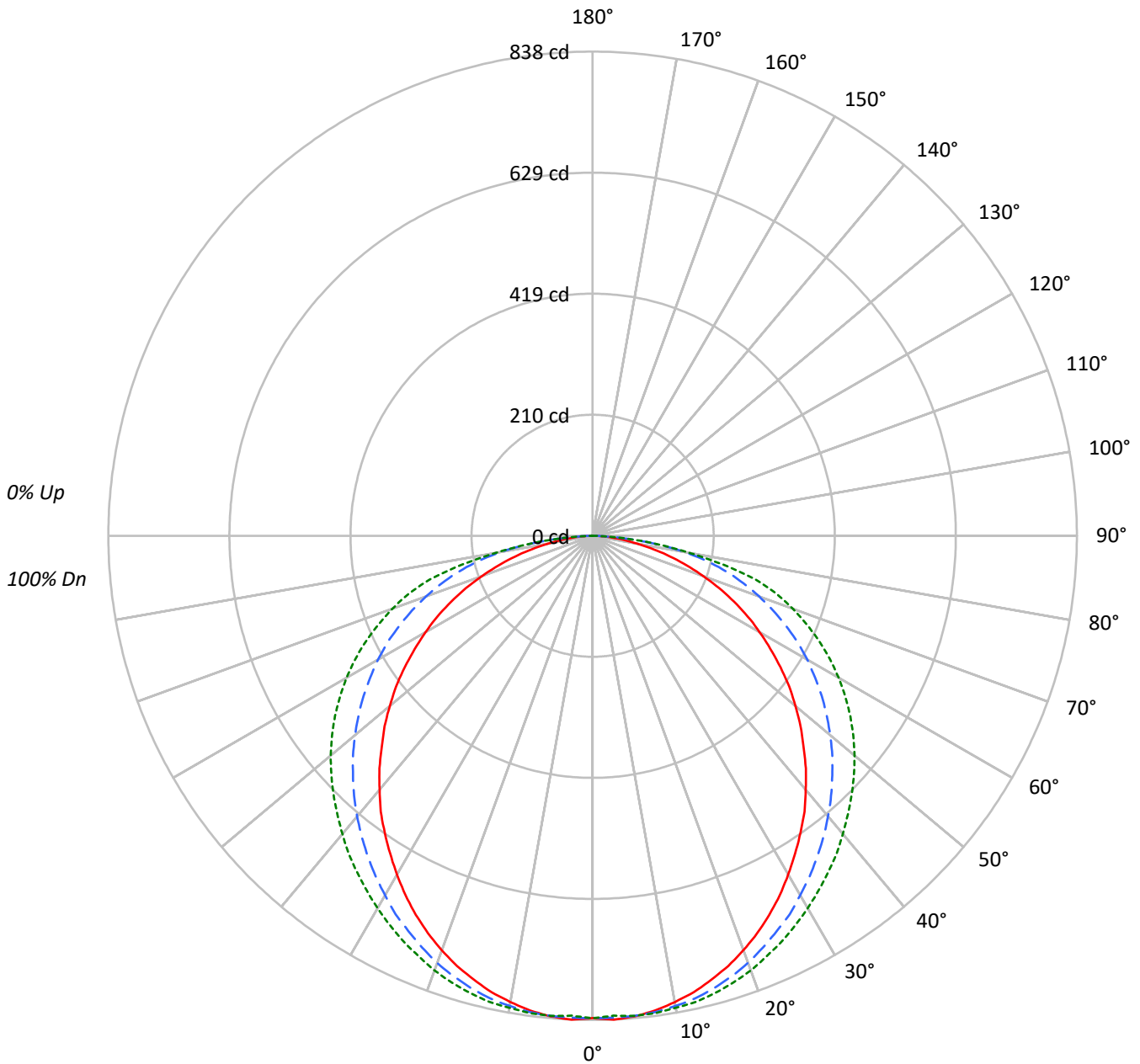
Lumens per Lamp: N/A  
Luminaire Lumens: 2612.0 lumens  
Efficiency: N/A  
Efficacy: 118.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				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°	1178	1178	1178
5°	1183	1182	1182
10°	1174	1184	1189
15°	1162	1185	1197
20°	1147	1182	1202
25°	1127	1175	1206
30°	1103	1171	1213
35°	1080	1168	1224
40°	1057	1168	1241
45°	1029	1171	1265
50°	1006	1178	1299
55°	976	1191	1339
60°	942	1210	1388
65°	901	1233	1446
70°	836	1264	1520
75°	757	1308	1590
80°	638	1311	1366
85°	489	991	991



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.3	3.0
10°-20°	228.0	8.7
20°-30°	346.4	13.3
30°-40°	421.3	16.1
40°-50°	448.5	17.2
50°-60°	427.2	16.4
60°-70°	357.3	13.7
70°-80°	238.2	9.1
80°-90°	65.9	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°	653.6	25.0
0°-40°	1074.9	41.2
0°-60°	1950.7	74.7
0°-90°	2612.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2612.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	835	835	835	835	835	
5°	835	830	834	834	834	79
15°	795	797	811	817	819	224
25°	724	733	755	768	775	333
35°	627	645	678	700	711	392
45°	516	543	586	619	634	399
55°	397	431	484	526	544	355
65°	270	310	369	415	433	267
75°	139	183	240	280	292	147
85°	30	56	61	60	61	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	834.9	834.9	834.9	834.9	834.9
2.5°	838.4	832.3	834.9	834.9	831.5
5°	834.9	829.7	834.1	834.1	834.1
7.5°	828.9	824.6	831.5	833.2	833.2
10°	819.4	817.7	826.4	828.9	829.7
12.5°	809.1	808.2	820.3	823.7	826.4
15°	795.2	797.0	810.8	816.8	819.4
17.5°	780.6	784.0	799.6	808.2	810.8
20°	763.4	768.5	786.7	795.2	800.5
22.5°	744.4	752.2	771.1	781.4	787.5
25°	723.7	733.1	754.7	767.6	774.6
27.5°	701.3	713.4	738.4	752.9	759.9
30°	677.0	690.8	718.5	735.8	744.4
32.5°	652.1	668.4	698.7	717.6	727.9
35°	627.1	645.2	677.9	700.4	710.7
37.5°	602.1	620.1	656.4	680.5	693.5
40°	573.6	595.1	634.0	660.7	673.7
42.5°	546.0	569.2	610.7	639.9	653.8
45°	515.7	543.4	586.5	619.3	634.0
47.5°	488.2	515.7	562.4	596.9	613.3
50°	458.0	487.3	536.5	574.5	591.7
52.5°	428.6	458.9	510.6	551.2	568.4
55°	396.8	431.2	483.9	526.2	544.2
57.5°	364.9	402.0	456.2	500.3	518.4
60°	333.8	371.7	428.6	472.7	491.6
62.5°	302.8	340.7	400.2	445.0	463.2
65°	269.9	309.6	369.1	414.9	433.0
67.5°	237.2	278.6	338.1	383.8	401.1
70°	202.7	246.7	306.2	351.1	368.3
72.5°	170.8	214.8	273.4	317.5	333.8
75°	138.9	182.8	239.8	280.3	291.6
77.5°	107.8	151.8	202.7	229.5	232.0
80°	78.5	119.9	161.3	169.0	168.1
82.5°	52.6	89.7	111.3	112.1	114.7
85°	30.2	56.0	61.2	60.4	61.2
87.5°	12.1	19.8	17.3	12.9	12.9
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)