

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: P842997

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P842997  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P295011)  
Test Lab: INNOVATIONS CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-30HE-HRP-UNV-B50  
Description: 2X4 3000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND HRP LENS

Light Source: -  
Ballast/Driver: -

**Summary**

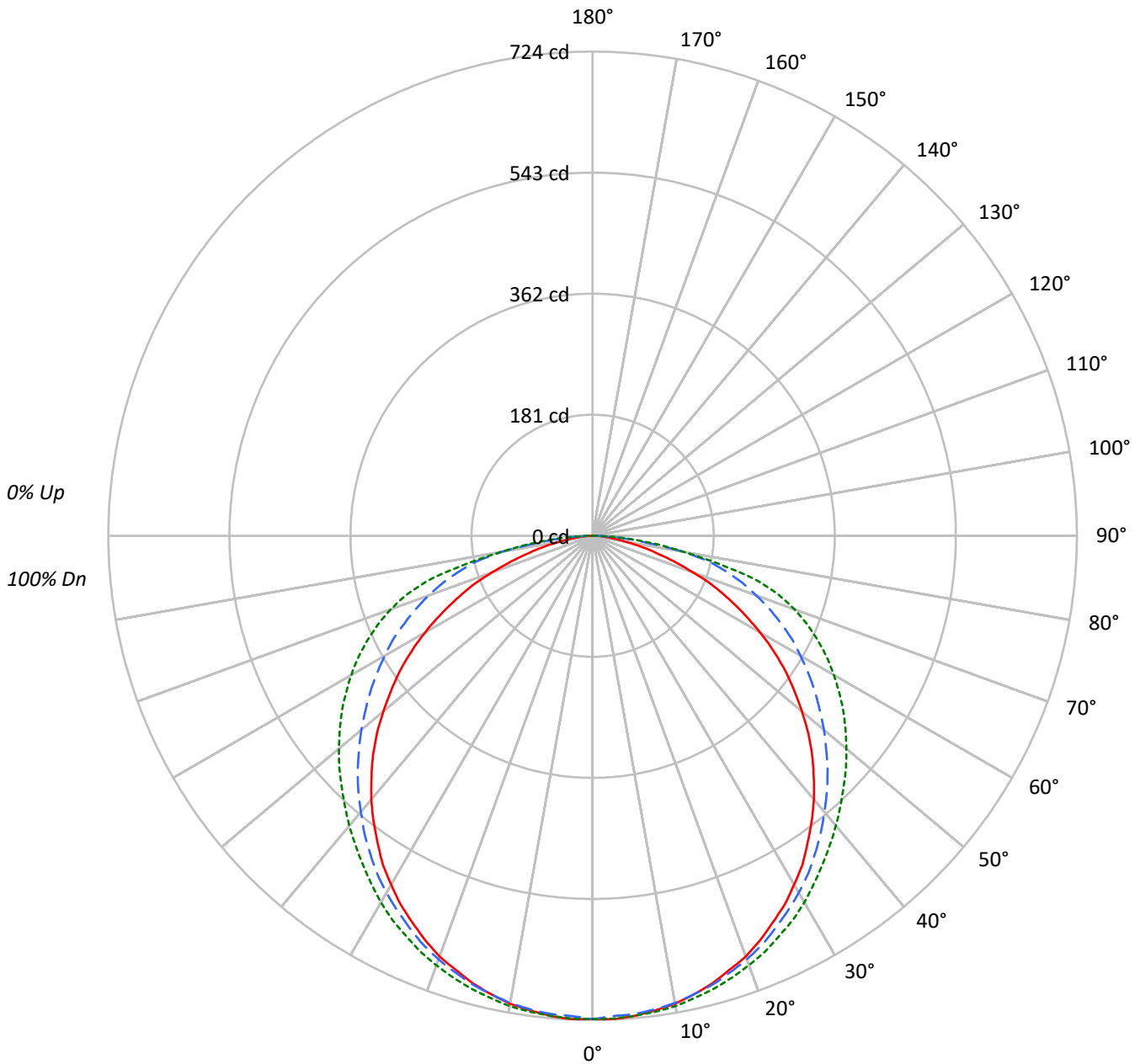
Lumens per Lamp: N/A  
Luminaire Lumens: 2227.0 lumens  
Efficiency: N/A  
Efficacy: 101.2 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	82																			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56																			
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	50	48																			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	49	42	38	36																			
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28																			
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25																			
10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24	23																			

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

	0°	45°	90°
0°	1020	1020	1020
5°	1021	1017	1021
10°	1018	1017	1024
15°	1012	1015	1024
20°	1005	1012	1026
25°	993	1008	1028
30°	982	1004	1032
35°	966	999	1033
40°	948	993	1043
45°	927	992	1059
50°	897	991	1087
55°	865	998	1126
60°	816	1013	1176
65°	753	1037	1242
70°	658	1073	1324
75°	534	1129	1368
80°	393	1107	1107
85°	303	816	920



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.4	3.1
10°-20°	196.6	8.8
20°-30°	299.2	13.4
30°-40°	363.3	16.3
40°-50°	383.9	17.2
50°-60°	362.2	16.3
60°-70°	301.2	13.5
70°-80°	198.2	8.9
80°-90°	54.0	2.4
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°	564.2	25.3
0°-40°	927.6	41.7
0°-60°	1673.6	75.2
0°-90°	2227.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2227.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	723	723	723	723	723	
5°	721	721	718	721	721	68
15°	693	694	695	701	701	195
25°	638	641	647	658	660	294
35°	560	567	580	595	599	351
45°	464	474	497	521	530	358
55°	351	366	406	444	458	313
65°	226	252	310	356	372	223
75°	98	143	207	245	251	105
85°	19	41	50	56	57	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	722.6	722.6	722.6	722.6	722.6
2.5°	723.5	722.6	718.8	722.6	722.6
5°	720.7	720.7	717.9	720.7	720.7
7.5°	716.0	716.0	714.2	717.9	717.9
10°	710.5	710.5	709.4	714.2	714.2
12.5°	702.1	703.0	702.1	707.6	707.6
15°	692.7	693.6	694.6	701.1	701.1
17.5°	680.6	682.5	684.3	691.8	692.7
20°	669.4	670.3	674.0	682.5	683.4
22.5°	654.4	657.3	661.9	670.3	673.1
25°	637.7	641.4	647.1	658.2	660.1
27.5°	621.8	624.7	632.1	644.2	648.0
30°	602.3	606.9	616.3	628.4	633.0
32.5°	583.6	588.3	599.4	612.6	616.3
35°	560.4	566.8	580.0	594.8	599.4
37.5°	538.0	544.4	560.4	577.1	582.7
40°	514.6	522.1	538.9	558.5	565.9
42.5°	489.4	499.7	518.4	539.8	548.2
45°	464.3	473.6	496.9	521.2	530.5
47.5°	437.2	448.4	473.6	502.5	513.7
50°	408.4	422.3	451.3	483.0	495.1
52.5°	379.4	395.2	427.9	463.4	476.4
55°	351.4	366.4	405.5	443.8	457.7
57.5°	320.8	339.3	382.2	423.3	437.2
60°	289.1	309.6	358.9	401.8	416.7
62.5°	257.3	280.6	336.6	379.4	395.2
65°	225.6	251.7	310.5	356.2	372.0
67.5°	194.9	223.8	286.2	331.9	347.7
70°	159.5	195.8	260.1	304.9	320.8
72.5°	126.8	168.8	235.0	276.9	290.9
75°	97.9	142.6	207.0	245.2	250.8
77.5°	71.8	116.6	178.0	191.2	192.1
80°	48.4	93.3	136.2	134.2	136.2
82.5°	31.7	69.9	85.8	96.0	97.0
85°	18.7	41.0	50.4	55.9	56.8
87.5°	9.3	14.0	17.8	18.7	20.5
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)