

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: P880803

Luminaire Tested: **24CZ2-30VHE-HRP-B2750-W2D-3000K**

Issue Date: 10/2/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P880803  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474369)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 10/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-30VHE-HRP-B2750-W2D-3000K  
Description: 2X4 3000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND HRP LENS

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

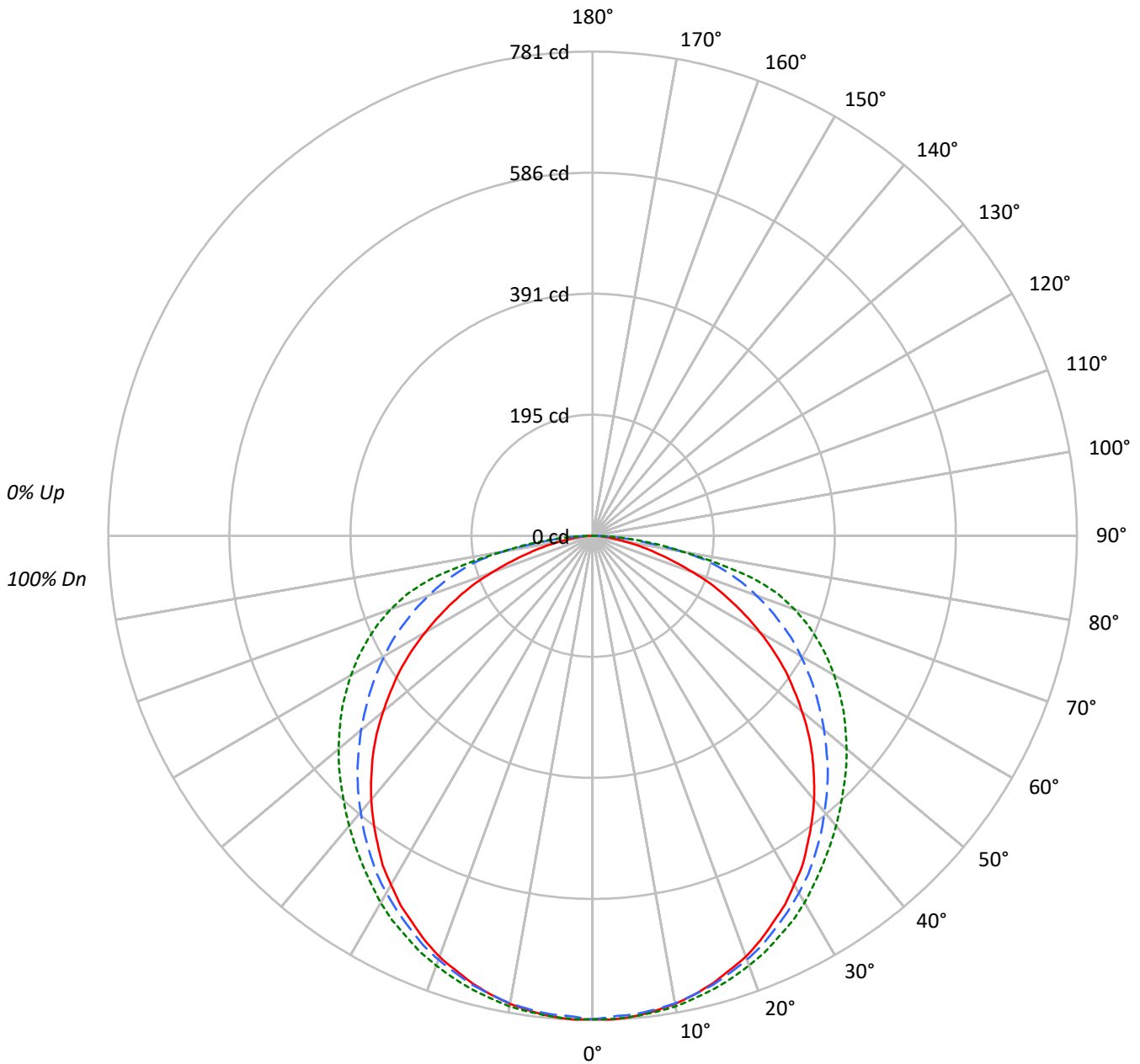
Lumens per Lamp: N/A  
Luminaire Lumens: 2404.0 lumens  
Efficiency: N/A  
Efficacy: 104.5 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 23  
Input Voltage (V): NR  
Input Current (Ain): 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	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°	1101	1101	1101
5°	1102	1098	1102
10°	1099	1098	1105
15°	1092	1096	1106
20°	1085	1093	1108
25°	1072	1088	1110
30°	1059	1084	1114
35°	1042	1078	1115
40°	1023	1072	1125
45°	1000	1071	1143
50°	968	1070	1174
55°	934	1077	1216
60°	881	1094	1270
65°	813	1119	1341
70°	710	1158	1429
75°	576	1218	1476
80°	426	1195	1195
85°	325	881	994



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.9	3.1
10°-20°	212.2	8.8
20°-30°	323.0	13.4
30°-40°	392.2	16.3
40°-50°	414.4	17.2
50°-60°	391.0	16.3
60°-70°	325.1	13.5
70°-80°	213.9	8.9
80°-90°	58.3	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°	609.1	25.3
0°-40°	1001.3	41.7
0°-60°	1806.7	75.2
0°-90°	2404.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2404.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	780	780	780	780	780	
5°	778	778	775	778	778	74
15°	748	749	750	757	757	211
25°	688	692	698	710	712	318
35°	605	612	626	642	647	379
45°	501	511	536	562	573	386
55°	379	396	438	479	494	338
65°	244	272	335	384	402	241
75°	106	154	223	265	271	114
85°	20	44	54	60	61	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	780.0	780.0	780.0	780.0	780.0
2.5°	781.0	780.0	775.9	780.0	780.0
5°	778.0	778.0	774.9	778.0	778.0
7.5°	772.9	772.9	770.9	774.9	774.9
10°	766.9	766.9	765.9	770.9	770.9
12.5°	757.9	758.7	757.9	763.8	763.8
15°	747.7	748.7	749.8	756.9	756.9
17.5°	734.7	736.7	738.7	746.7	747.7
20°	722.6	723.5	727.6	736.7	737.7
22.5°	706.6	709.5	714.6	723.5	726.7
25°	688.3	692.4	698.4	710.5	712.5
27.5°	671.3	674.3	682.4	695.5	699.5
30°	650.1	655.2	665.2	678.3	683.4
32.5°	630.0	635.1	647.2	661.1	665.2
35°	604.9	611.9	625.9	642.1	647.2
37.5°	580.7	587.7	604.9	623.0	629.1
40°	555.5	563.5	581.8	602.8	610.8
42.5°	528.3	539.4	559.6	582.7	591.8
45°	501.1	511.3	536.4	562.5	572.7
47.5°	472.1	484.2	511.3	542.5	554.6
50°	440.8	455.9	487.2	521.3	534.5
52.5°	409.7	426.7	462.0	500.1	514.3
55°	379.4	395.5	437.8	479.1	494.2
57.5°	346.2	366.4	412.7	456.9	472.1
60°	312.0	334.2	387.5	433.7	449.9
62.5°	277.7	302.9	363.3	409.7	426.7
65°	243.5	271.8	335.2	384.5	401.6
67.5°	210.3	241.5	309.0	358.3	375.4
70°	172.1	211.4	280.7	329.1	346.2
72.5°	136.9	182.2	253.5	299.0	314.1
75°	105.6	154.1	223.4	264.7	270.7
77.5°	77.5	125.8	192.2	206.2	207.3
80°	52.4	100.6	147.0	144.9	147.0
82.5°	34.2	75.5	92.5	103.7	104.7
85°	20.1	44.3	54.4	60.4	61.4
87.5°	10.0	15.1	19.1	20.1	22.1
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)