

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: P880798

Luminaire Tested: **24CZ2-30VHE-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: P880798  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P473819)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 10/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-30VHE-B2750-W2D-3000K  
Description: 2X4 3000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND RIBBED LENS

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

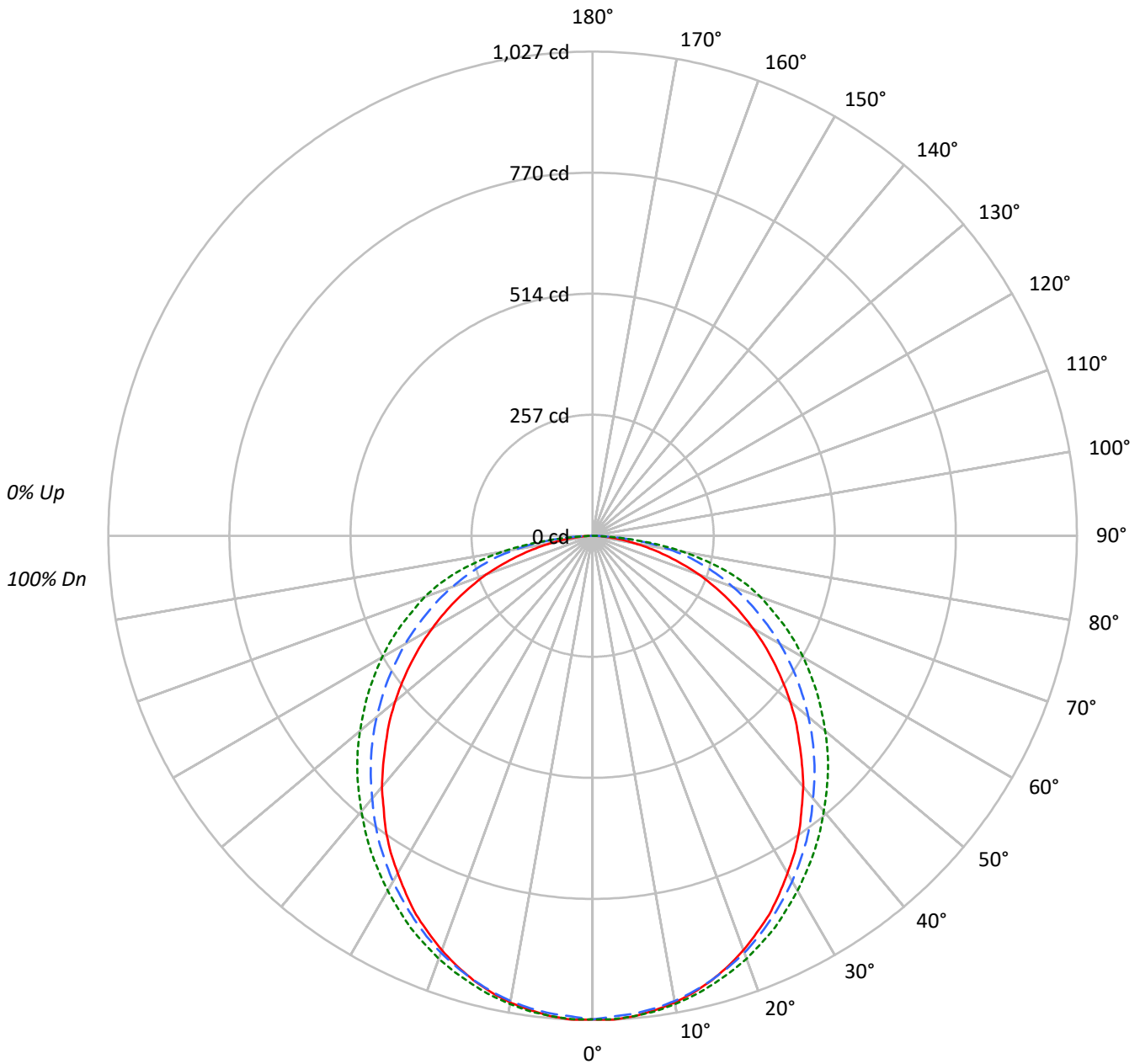
Lumens per Lamp: N/A  
Luminaire Lumens: 2969.0 lumens  
Efficiency: N/A  
Efficacy: 129.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P880798

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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	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83			
2	98	89	82	76	95	88	81	75	84	78	74	81	76	72	78	74	70	68			
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57			
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48			
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	55	49	44	42			
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	37			
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26			
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23			

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

	0°	45°	90°
0°	1448	1448	1448
5°	1449	1441	1449
10°	1441	1436	1446
15°	1426	1425	1440
20°	1405	1413	1434
25°	1380	1396	1427
30°	1347	1380	1417
35°	1316	1362	1411
40°	1280	1340	1405
45°	1237	1326	1409
50°	1199	1311	1413
55°	1155	1302	1429
60°	1108	1296	1456
65°	1056	1291	1493
70°	994	1304	1561
75°	874	1331	1624
80°	729	1341	1567
85°	521	1150	1164



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.0	3.3
10°-20°	276.3	9.3
20°-30°	414.4	14.0
30°-40°	494.8	16.7
40°-50°	512.5	17.3
50°-60°	471.8	15.9
60°-70°	380.6	12.8
70°-80°	248.7	8.4
80°-90°	72.9	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°	787.7	26.5
0°-40°	1282.5	43.2
0°-60°	2266.8	76.3
0°-90°	2969.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2969.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1026	1026	1026	1026	1026	
5°	1023	1022	1017	1023	1023	97
15°	976	976	976	985	985	275
25°	886	888	896	913	916	408
35°	764	771	790	812	819	477
45°	620	635	664	694	706	479
55°	470	490	529	568	581	420
65°	316	338	387	431	447	313
75°	160	190	244	286	298	171
85°	32	56	71	75	72	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1026.0	1026.0	1026.0	1026.0	1026.0
2.5°	1027.4	1026.0	1020.7	1026.9	1026.4
5°	1022.6	1021.6	1017.3	1023.1	1022.6
7.5°	1014.9	1014.5	1011.1	1017.3	1017.3
10°	1005.4	1004.4	1002.0	1009.2	1008.7
12.5°	992.0	991.5	990.0	998.7	998.2
15°	976.1	976.1	975.6	985.2	985.2
17.5°	956.9	957.4	959.3	970.3	970.8
20°	935.3	937.3	941.1	953.5	954.5
22.5°	910.8	914.7	919.9	933.9	935.3
25°	886.4	888.3	896.5	912.7	916.1
27.5°	856.6	861.5	872.0	888.8	892.2
30°	826.5	833.2	846.6	863.9	869.2
32.5°	796.7	802.5	818.3	837.9	844.2
35°	764.1	770.8	790.4	812.1	818.8
37.5°	728.1	738.6	759.3	784.2	791.4
40°	695.0	704.6	727.1	755.0	762.7
42.5°	657.1	669.1	696.5	724.7	734.3
45°	619.7	635.1	664.3	694.1	706.1
47.5°	584.7	597.2	631.7	665.3	675.8
50°	546.3	560.7	597.2	632.7	643.7
52.5°	508.5	525.7	562.6	600.0	612.0
55°	469.6	489.7	529.1	568.0	580.9
57.5°	432.1	452.4	493.1	534.3	547.7
60°	392.4	413.9	459.1	498.8	515.7
62.5°	354.0	375.5	423.0	466.2	482.0
65°	316.1	337.7	386.6	430.7	447.1
67.5°	276.8	300.3	352.6	395.3	411.1
70°	240.8	263.3	316.1	361.7	378.4
72.5°	199.5	226.4	280.1	325.2	341.1
75°	160.2	190.4	244.1	286.4	297.9
77.5°	123.7	154.0	207.6	239.3	246.5
80°	89.7	120.4	165.0	187.1	192.8
82.5°	58.0	89.7	119.4	134.3	136.2
85°	32.2	55.6	71.0	75.3	71.9
87.5°	11.5	21.1	20.6	16.8	13.4
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)