

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: P880813

Luminaire Tested: **24CZ2-30VHE-S-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: P880813
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P473969)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-30VHE-S-B2750-W2D-3000K
Description: 2X4 3000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

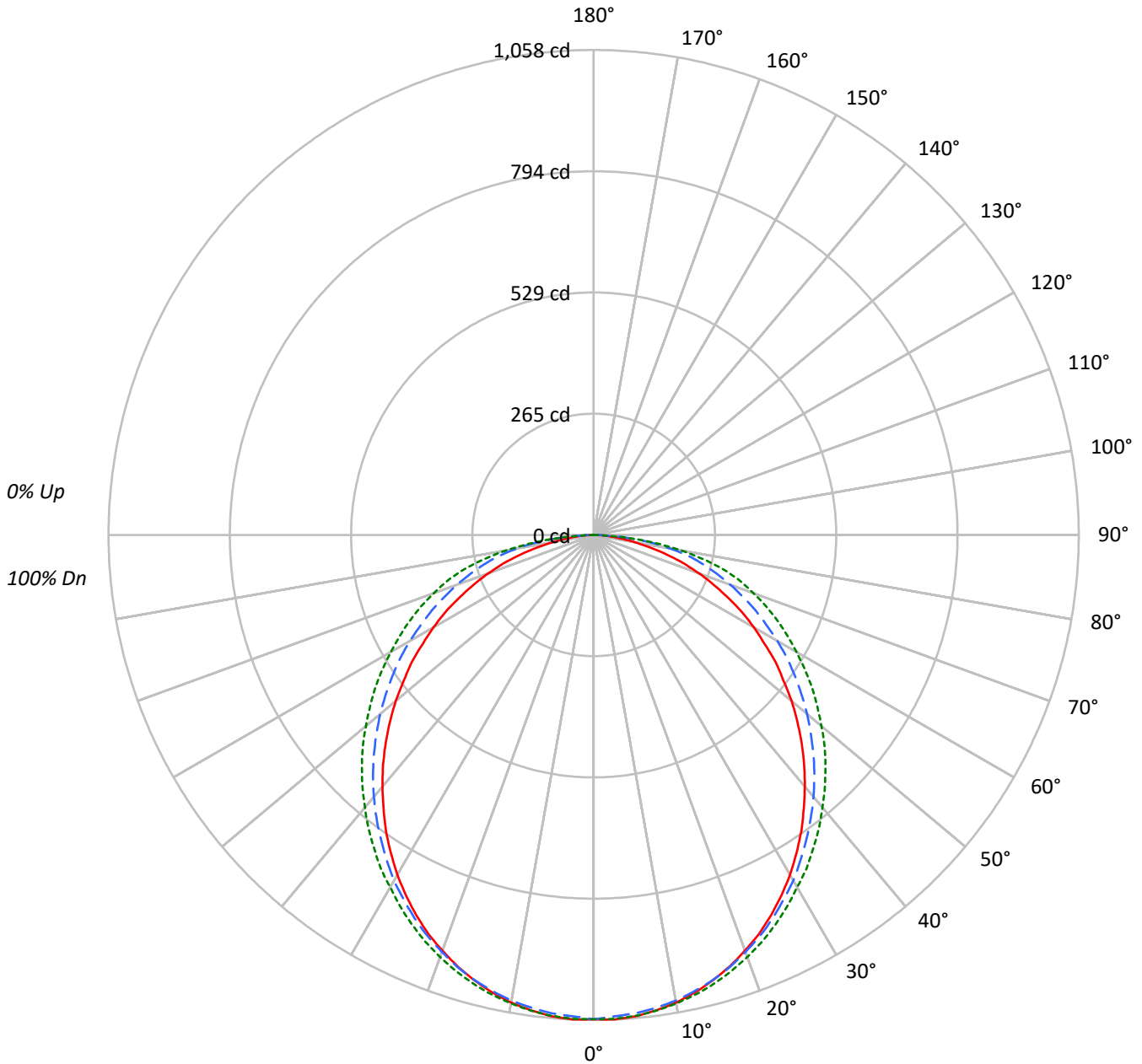
Lumens per Lamp: N/A
Luminaire Lumens: 3027.0 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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									
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	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83																			
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68																			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	59	57																			
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	55	51	49																			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42																			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37																			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32																			
8	60	46	38	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29																			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1491	1491	1491
5°	1493	1484	1492
10°	1485	1479	1487
15°	1470	1469	1481
20°	1449	1454	1472
25°	1425	1438	1460
30°	1395	1420	1446
35°	1360	1395	1438
40°	1320	1374	1430
45°	1280	1352	1427
50°	1237	1334	1424
55°	1193	1318	1431
60°	1138	1305	1441
65°	1078	1300	1476
70°	1005	1307	1528
75°	895	1345	1610
80°	731	1374	1572
85°	515	1200	1224



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	3.3
10°-20°	284.5	9.4
20°-30°	426.5	14.1
30°-40°	507.9	16.8
40°-50°	523.7	17.3
50°-60°	477.9	15.8
60°-70°	382.1	12.6
70°-80°	249.6	8.2
80°-90°	74.9	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°	810.8	26.8
0°-40°	1318.7	43.6
0°-60°	2320.3	76.7
0°-90°	3027.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3027.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1057	1057	1057	1057	1057	
5°	1054	1052	1048	1054	1053	100
15°	1006	1006	1005	1014	1014	284
25°	915	917	923	937	938	421
35°	790	795	810	830	835	493
45°	641	653	678	706	715	495
55°	485	499	536	571	582	432
65°	323	344	389	428	442	320
75°	164	192	247	286	295	174
85°	32	57	74	76	76	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1056.6	1056.6	1056.6	1056.6	1056.6
2.5°	1058.1	1056.6	1051.0	1057.6	1056.6
5°	1054.1	1052.0	1047.6	1054.1	1053.1
7.5°	1046.1	1045.1	1040.6	1048.1	1047.1
10°	1036.2	1035.2	1031.7	1039.1	1037.7
12.5°	1022.3	1021.8	1019.3	1028.2	1027.2
15°	1005.8	1006.3	1005.3	1013.8	1013.8
17.5°	987.0	986.5	988.4	998.9	997.9
20°	965.0	965.5	968.0	980.0	980.0
22.5°	942.2	941.7	947.2	959.1	960.1
25°	915.3	916.8	923.3	936.8	937.8
27.5°	886.5	889.0	897.0	912.4	913.8
30°	856.2	859.2	871.1	885.5	887.5
32.5°	822.9	829.3	840.2	858.7	863.7
35°	789.5	795.0	809.5	829.8	834.8
37.5°	752.7	761.7	778.1	800.5	807.0
40°	716.4	725.5	745.8	769.2	776.2
42.5°	679.6	689.2	712.5	738.9	746.3
45°	641.4	652.8	677.6	706.0	714.9
47.5°	602.2	615.5	642.4	673.2	683.2
50°	563.4	576.8	607.6	639.4	648.4
52.5°	521.6	538.5	571.3	605.6	614.6
55°	484.8	498.7	535.5	570.8	581.7
57.5°	441.5	460.4	499.7	535.5	545.9
60°	403.3	420.6	462.4	498.7	510.6
62.5°	364.5	382.3	424.1	465.4	476.4
65°	322.7	344.5	389.3	427.6	442.0
67.5°	282.9	305.7	351.6	392.2	407.2
70°	243.6	267.0	316.8	358.5	370.4
72.5°	204.9	229.3	280.9	321.7	335.6
75°	164.1	191.5	246.6	286.4	295.3
77.5°	125.8	156.1	211.8	238.7	245.1
80°	90.0	123.3	169.0	188.5	193.4
82.5°	59.1	91.5	126.3	136.7	135.2
85°	31.8	57.1	74.1	75.6	75.6
87.5°	12.4	22.9	23.4	17.9	16.9
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)