

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: P881159

Luminaire Tested: **24CZ2-30VHE-S-UNV-B40**

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: P881159
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-UNV-B40
Description: 2X4 3000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

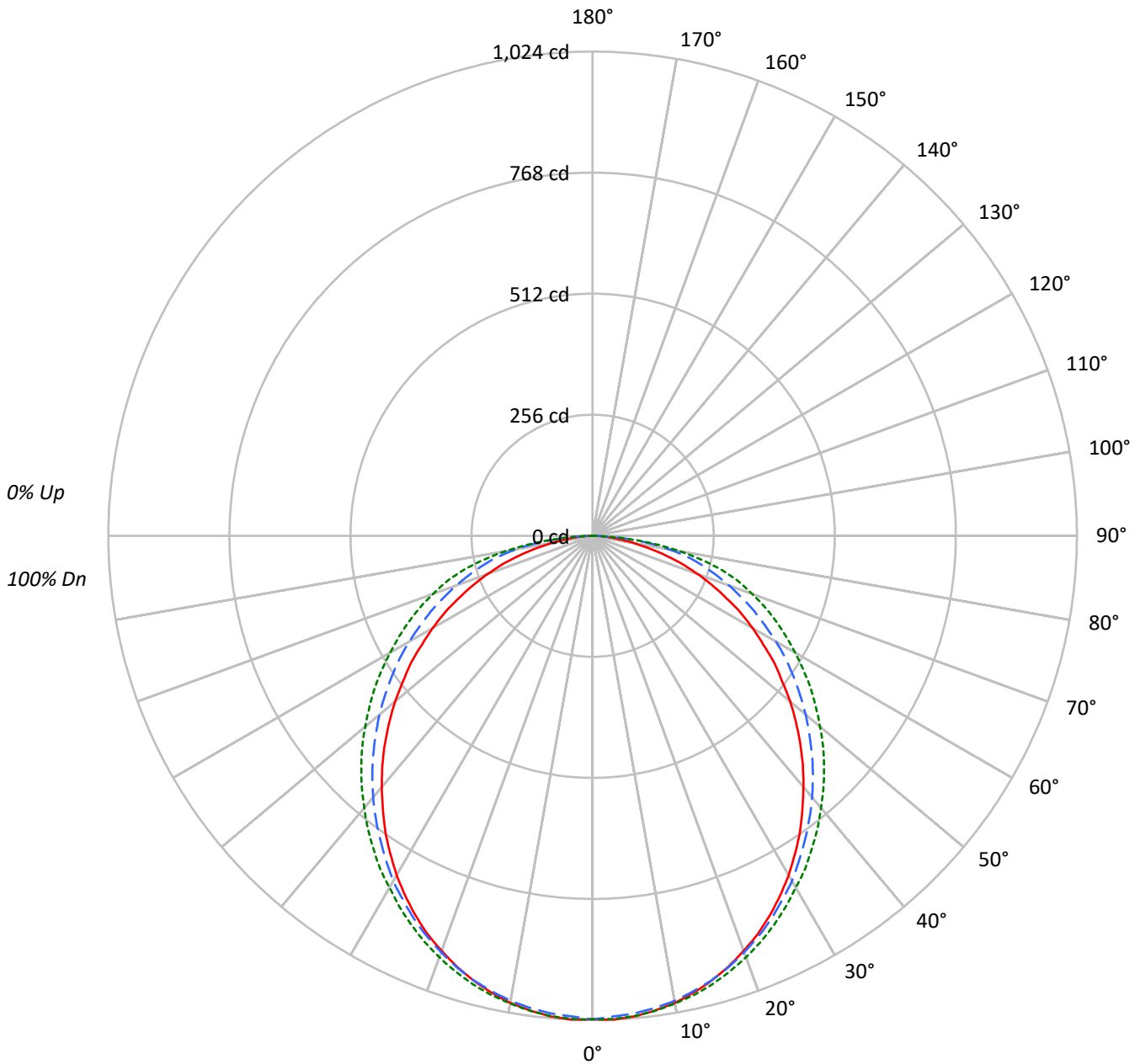
Lumens per Lamp: N/A
Luminaire Lumens: 2930.0 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1443	1443	1443
5°	1445	1437	1444
10°	1437	1431	1439
15°	1423	1422	1434
20°	1403	1407	1425
25°	1380	1392	1414
30°	1351	1374	1400
35°	1317	1350	1392
40°	1278	1330	1384
45°	1239	1309	1381
50°	1197	1291	1378
55°	1155	1275	1386
60°	1102	1263	1395
65°	1043	1258	1429
70°	973	1265	1479
75°	866	1302	1559
80°	708	1330	1521
85°	499	1161	1185



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.7	3.3
10°-20°	275.4	9.4
20°-30°	412.8	14.1
30°-40°	491.6	16.8
40°-50°	506.9	17.3
50°-60°	462.6	15.8
60°-70°	369.9	12.6
70°-80°	241.6	8.2
80°-90°	72.5	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°	784.8	26.8
0°-40°	1276.5	43.6
0°-60°	2246.0	76.7
0°-90°	2930.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2930.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1023	1023	1023	1023	1023	
5°	1020	1018	1014	1020	1019	97
15°	974	974	973	981	981	274
25°	886	887	894	907	908	408
35°	764	770	784	803	808	477
45°	621	632	656	683	692	479
55°	469	483	518	552	563	418
65°	312	334	377	414	428	310
75°	159	185	239	277	286	169
85°	31	55	72	73	73	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1022.7	1022.7	1022.7	1022.7	1022.7
2.5°	1024.2	1022.7	1017.4	1023.7	1022.7
5°	1020.3	1018.3	1014.0	1020.3	1019.4
7.5°	1012.6	1011.6	1007.3	1014.5	1013.5
10°	1003.0	1002.0	998.6	1005.8	1004.4
12.5°	989.5	989.0	986.6	995.3	994.3
15°	973.6	974.1	973.1	981.4	981.4
17.5°	955.3	954.9	956.8	966.9	965.9
20°	934.1	934.6	937.0	948.6	948.6
22.5°	912.0	911.5	916.8	928.3	929.3
25°	886.0	887.4	893.7	906.7	907.7
27.5°	858.1	860.6	868.2	883.1	884.6
30°	828.8	831.7	843.2	857.1	859.0
32.5°	796.5	802.8	813.3	831.2	836.0
35°	764.2	769.5	783.5	803.2	808.0
37.5°	728.6	737.3	753.2	774.8	781.1
40°	693.5	702.2	721.9	744.6	751.3
42.5°	657.9	667.1	689.6	715.2	722.4
45°	620.9	631.9	655.9	683.4	692.0
47.5°	582.9	595.8	621.8	651.6	661.3
50°	545.3	558.3	588.1	618.9	627.6
52.5°	504.9	521.2	553.0	586.2	594.9
55°	469.3	482.7	518.3	552.5	563.1
57.5°	427.4	445.6	483.7	518.3	528.4
60°	390.3	407.1	447.6	482.7	494.2
62.5°	352.8	370.1	410.5	450.4	461.1
65°	312.4	333.5	376.8	413.9	427.9
67.5°	273.9	295.9	340.3	379.7	394.2
70°	235.8	258.4	306.6	347.0	358.5
72.5°	198.3	221.9	271.9	311.4	324.8
75°	158.8	185.3	238.7	277.2	285.9
77.5°	121.8	151.1	205.0	231.0	237.3
80°	87.1	119.4	163.6	182.4	187.2
82.5°	57.2	88.5	122.2	132.3	130.9
85°	30.8	55.3	71.7	73.2	73.2
87.5°	12.0	22.2	22.7	17.3	16.3
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)