

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: P843119

Luminaire Tested: **24CZ2-50HE-RDP-UNV-B40**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843119
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P274775)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-50HE-RDP-UNV-B40
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Summary

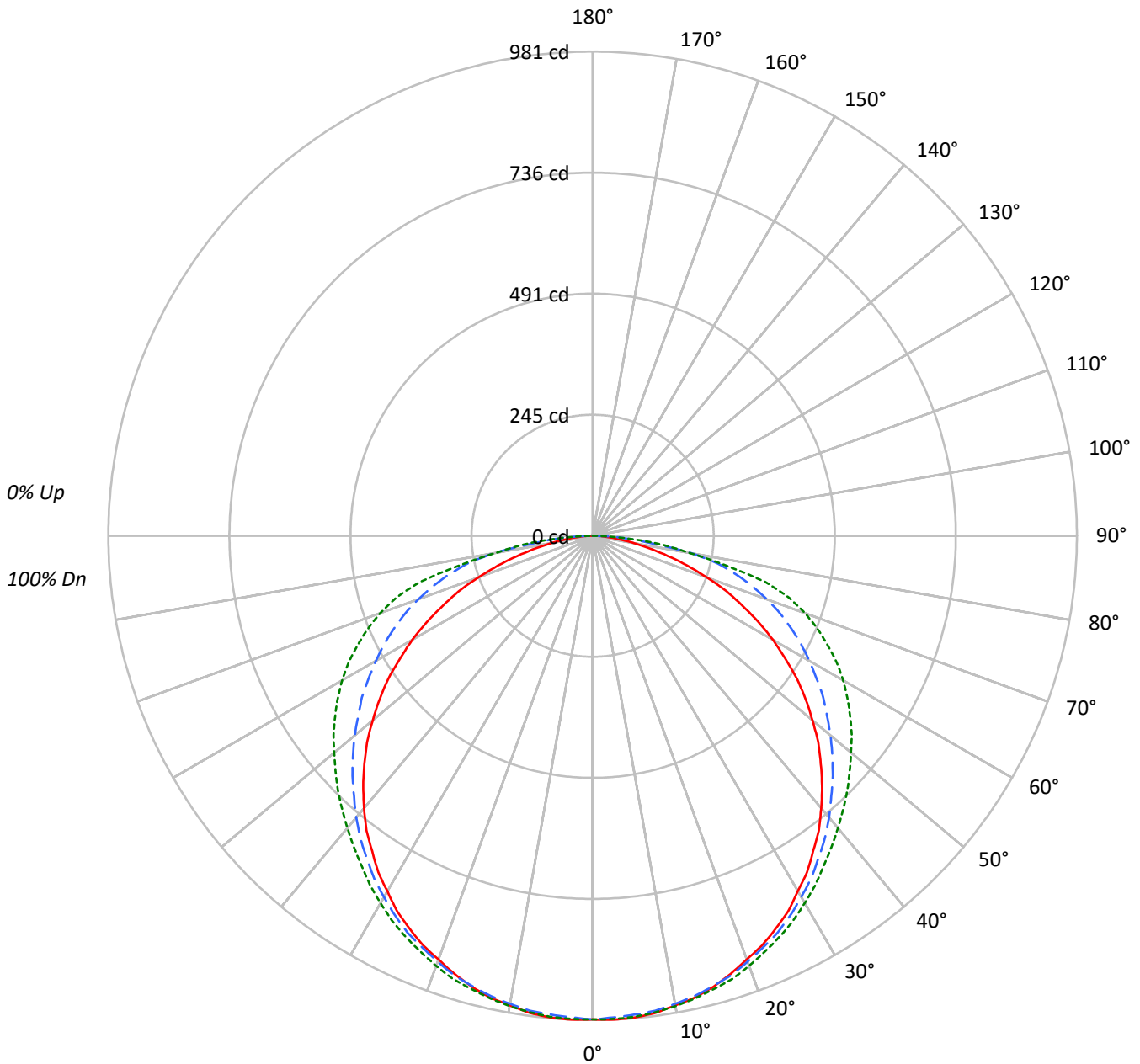
Lumens per Lamp: N/A
Luminaire Lumens: 3116.0 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 37
Input Voltage (V): NR
Input Current (A_{in}): 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	100	96	92	96	93	89	92	89	87	88	86	84	82																			
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67																			
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56																			
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47																			
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40																			
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35																			
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27																			
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24																			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1383	1383	1383
5°	1388	1380	1386
10°	1384	1380	1387
15°	1382	1380	1389
20°	1372	1379	1393
25°	1367	1381	1396
30°	1355	1378	1400
35°	1342	1374	1406
40°	1327	1372	1424
45°	1305	1373	1456
50°	1276	1381	1500
55°	1244	1403	1567
60°	1191	1431	1653
65°	1115	1481	1755
70°	1014	1549	1888
75°	860	1635	1972
80°	679	1645	1595
85°	500	1252	1401



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.0	3.0
10°-20°	267.5	8.6
20°-30°	409.1	13.1
30°-40°	500.1	16.0
40°-50°	533.0	17.1
50°-60°	509.6	16.4
60°-70°	431.7	13.9
70°-80°	290.1	9.3
80°-90°	81.8	2.6
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°	769.6	24.7
0°-40°	1269.7	40.7
0°-60°	2312.3	74.2
0°-90°	3116.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3116.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	980	980	980	980	980	
5°	980	978	974	978	978	93
15°	946	946	944	952	950	267
25°	878	881	887	895	896	405
35°	779	785	798	813	816	488
45°	654	665	688	717	729	504
55°	505	524	570	615	637	450
65°	334	368	444	502	526	331
75°	158	215	300	351	362	169
85°	31	63	77	84	86	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	979.9	979.9	979.9	979.9	979.9
2.5°	981.4	981.4	976.7	979.9	979.9
5°	979.9	978.4	973.8	978.4	978.4
7.5°	975.2	973.8	970.6	975.2	973.8
10°	965.9	965.9	962.9	967.6	967.6
12.5°	958.3	956.8	955.1	961.3	959.8
15°	946.0	946.0	944.3	952.1	950.5
17.5°	930.5	932.0	933.5	939.6	941.3
20°	913.4	916.5	918.0	927.3	927.3
22.5°	897.9	899.6	902.6	911.9	911.9
25°	878.0	880.9	887.1	894.9	896.4
27.5°	857.8	859.3	867.2	878.0	879.5
30°	831.6	836.2	845.3	857.8	859.3
32.5°	808.3	812.9	823.7	836.2	839.2
35°	779.0	785.2	797.5	812.9	816.1
37.5°	752.7	757.4	772.9	789.8	794.5
40°	720.3	729.4	744.9	765.0	772.9
42.5°	687.9	697.0	715.6	741.9	751.2
45°	653.8	664.6	687.9	717.1	729.4
47.5°	619.8	632.1	658.4	692.3	706.3
50°	581.1	596.6	629.0	667.7	683.2
52.5°	544.0	562.6	598.2	641.5	661.6
55°	505.4	523.9	570.3	615.2	636.8
57.5°	462.2	486.8	537.8	588.9	612.0
60°	421.9	445.0	506.9	562.6	585.7
62.5°	378.7	409.6	476.0	534.7	558.0
65°	333.8	367.9	443.5	502.3	525.5
67.5°	293.7	330.8	411.1	469.8	493.1
70°	245.8	292.0	375.5	434.2	457.5
72.5°	200.9	252.0	338.4	395.7	417.3
75°	157.7	214.9	299.9	350.9	361.7
77.5°	117.4	177.8	259.6	281.2	273.6
80°	83.5	142.2	202.4	191.6	196.2
82.5°	54.0	108.3	125.2	142.2	146.9
85°	30.9	63.4	77.3	83.5	86.5
87.5°	14.0	23.1	30.9	30.9	29.4
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)