

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: P843118

Luminaire Tested: **24CZ2-50HE-RDP-UNV-B35**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843118
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-B35
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Summary

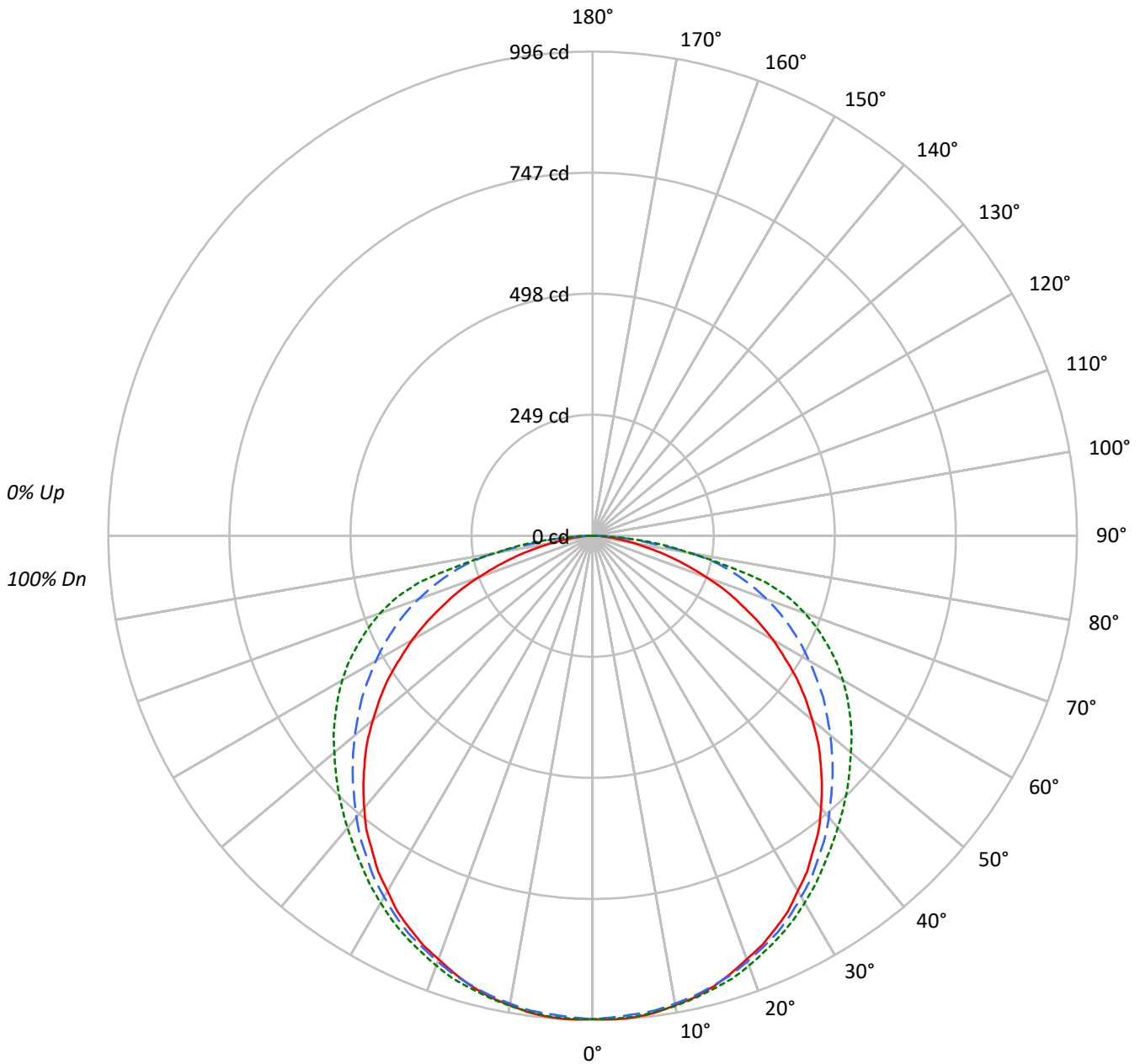
Lumens per Lamp: N/A
Luminaire Lumens: 3162.0 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1403	1403	1403
5°	1409	1400	1407
10°	1405	1400	1407
15°	1403	1400	1409
20°	1392	1399	1413
25°	1387	1402	1416
30°	1375	1398	1421
35°	1362	1394	1427
40°	1347	1393	1445
45°	1324	1393	1477
50°	1295	1401	1522
55°	1262	1424	1590
60°	1209	1452	1678
65°	1131	1503	1781
70°	1029	1573	1916
75°	872	1659	2002
80°	688	1669	1618
85°	508	1271	1420



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.3	3.0
10°-20°	271.5	8.6
20°-30°	415.1	13.1
30°-40°	507.5	16.0
40°-50°	540.9	17.1
50°-60°	517.2	16.4
60°-70°	438.1	13.9
70°-80°	294.4	9.3
80°-90°	83.1	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°	780.9	24.7
0°-40°	1288.4	40.7
0°-60°	2346.4	74.2
0°-90°	3162.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3162.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	994	994	994	994	994	
5°	994	993	988	993	993	94
15°	960	960	958	966	964	271
25°	891	894	900	908	910	411
35°	790	797	809	825	828	495
45°	663	674	698	728	740	512
55°	513	532	579	624	646	457
65°	339	373	450	510	533	336
75°	160	218	304	356	367	171
85°	31	64	78	85	88	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	994.4	994.4	994.4	994.4	994.4
2.5°	995.9	995.9	991.2	994.4	994.4
5°	994.4	992.9	988.1	992.9	992.9
7.5°	989.6	988.1	984.9	989.6	988.1
10°	980.2	980.2	977.2	981.9	981.9
12.5°	972.4	970.9	969.2	975.5	973.9
15°	959.9	959.9	958.2	966.2	964.5
17.5°	944.3	945.8	947.3	953.5	955.2
20°	926.9	930.1	931.6	941.0	941.0
22.5°	911.2	912.9	915.9	925.3	925.3
25°	890.9	893.9	900.2	908.1	909.6
27.5°	870.5	872.0	880.0	890.9	892.4
30°	843.8	848.6	857.8	870.5	872.0
32.5°	820.2	824.9	835.9	848.6	851.6
35°	790.5	796.7	809.2	824.9	828.1
37.5°	763.8	768.6	784.3	801.5	806.2
40°	730.9	740.2	755.9	776.3	784.3
42.5°	698.0	707.3	726.2	752.9	762.3
45°	663.4	674.4	698.0	727.7	740.2
47.5°	629.0	641.5	668.1	702.6	716.7
50°	589.7	605.4	638.3	677.6	693.3
52.5°	552.0	570.9	607.1	650.9	671.4
55°	512.9	531.6	578.7	624.3	646.2
57.5°	469.0	494.0	545.8	597.6	621.1
60°	428.2	451.6	514.4	570.9	594.4
62.5°	384.3	415.7	483.0	542.6	566.2
65°	338.7	373.3	450.1	509.7	533.3
67.5°	298.0	335.7	417.2	476.8	500.4
70°	249.4	296.3	381.1	440.6	464.3
72.5°	203.9	255.7	343.4	401.5	423.4
75°	160.0	218.0	304.3	356.1	367.1
77.5°	119.1	180.4	263.4	285.4	277.6
80°	84.7	144.3	205.4	194.4	199.1
82.5°	54.8	109.9	127.1	144.3	149.0
85°	31.4	64.3	78.5	84.7	87.7
87.5°	14.2	23.5	31.4	31.4	29.9
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)