

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: P843066

Luminaire Tested: **24CZ2-40HE-SQR-UNV-B50**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843066
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P388488)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-40HE-SQR-UNV-B50
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

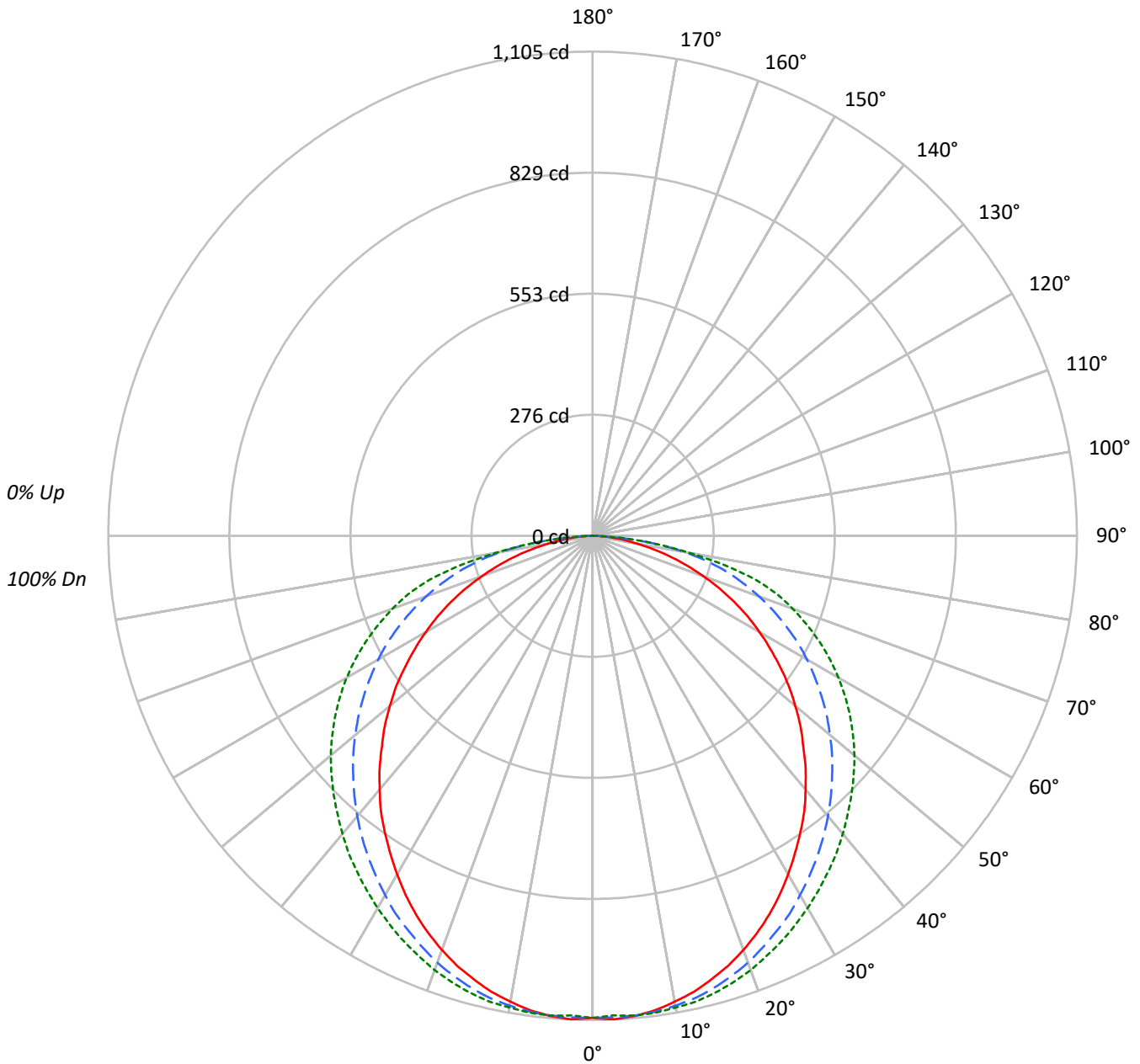
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3442.0 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 29
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	89	86	84	82																			
2	98	89	81	75	95	87	80	74	83	78	73	80	75	71	77	73	69	67																			
3	89	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56																			
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	60	54	49	47																			
5	74	61	51	44	72	60	51	44	57	50	44	55	49	43	54	48	43	41																			
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35																			
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	30	28																			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25																			
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1553	1553	1553
5°	1559	1557	1557
10°	1547	1561	1567
15°	1531	1561	1578
20°	1511	1557	1584
25°	1485	1549	1589
30°	1454	1543	1599
35°	1424	1539	1614
40°	1393	1539	1636
45°	1356	1542	1668
50°	1325	1552	1712
55°	1287	1569	1764
60°	1242	1595	1829
65°	1188	1624	1906
70°	1102	1665	2003
75°	998	1723	2095
80°	840	1728	1801
85°	643	1307	1307



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.4	3.0
10°-20°	300.5	8.7
20°-30°	456.4	13.3
30°-40°	555.2	16.1
40°-50°	591.1	17.2
50°-60°	563.0	16.4
60°-70°	470.8	13.7
70°-80°	313.9	9.1
80°-90°	86.8	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°	861.3	25.0
0°-40°	1416.5	41.2
0°-60°	2570.5	74.7
0°-90°	3442.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3442.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1100	1100	1100	1100	1100	
5°	1100	1093	1099	1099	1099	104
15°	1048	1050	1068	1076	1080	296
25°	954	966	995	1012	1021	439
35°	826	850	893	923	936	517
45°	680	716	773	816	836	525
55°	523	568	638	693	717	467
65°	356	408	486	547	571	351
75°	183	241	316	369	384	194
85°	40	74	81	80	81	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1100.2	1100.2	1100.2	1100.2	1100.2
2.5°	1104.7	1096.8	1100.2	1100.2	1095.7
5°	1100.2	1093.4	1099.1	1099.1	1099.1
7.5°	1092.3	1086.6	1095.7	1098.0	1098.0
10°	1079.8	1077.6	1088.9	1092.3	1093.4
12.5°	1066.2	1065.0	1081.0	1085.4	1088.9
15°	1047.9	1050.2	1068.4	1076.4	1079.8
17.5°	1028.7	1033.1	1053.6	1065.0	1068.4
20°	1005.9	1012.7	1036.7	1047.9	1054.8
22.5°	981.0	991.2	1016.1	1029.7	1037.7
25°	953.6	966.0	994.6	1011.5	1020.7
27.5°	924.1	940.0	973.0	992.2	1001.3
30°	892.2	910.4	946.8	969.6	981.0
32.5°	859.2	880.8	920.7	945.7	959.3
35°	826.3	850.2	893.4	922.9	936.5
37.5°	793.4	817.2	865.0	896.8	913.9
40°	755.9	784.2	835.5	870.6	887.8
42.5°	719.5	750.1	804.7	843.3	861.6
45°	679.6	716.1	772.8	816.1	835.5
47.5°	643.3	679.6	741.1	786.6	808.1
50°	603.6	642.1	707.0	757.0	779.8
52.5°	564.9	604.7	672.8	726.3	749.1
55°	522.9	568.3	637.7	693.4	717.1
57.5°	480.8	529.7	601.2	659.2	683.2
60°	439.9	489.8	564.9	622.9	647.9
62.5°	399.0	448.9	527.3	586.4	610.4
65°	355.7	408.0	486.4	546.7	570.6
67.5°	312.6	367.1	445.5	505.8	528.5
70°	267.1	325.1	403.6	462.6	485.4
72.5°	225.1	283.0	360.3	418.3	439.9
75°	183.0	240.9	316.0	369.4	384.2
77.5°	142.1	200.0	267.1	302.4	305.8
80°	103.4	158.1	212.6	222.8	221.6
82.5°	69.3	118.2	146.7	147.7	151.1
85°	39.7	73.9	80.7	79.6	80.7
87.5°	16.0	26.1	22.7	17.0	17.0
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)