

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: P843068

Luminaire Tested: **24CZ2-40HE-UNV-B40**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843068
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272125)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-40HE-UNV-B40
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Summary

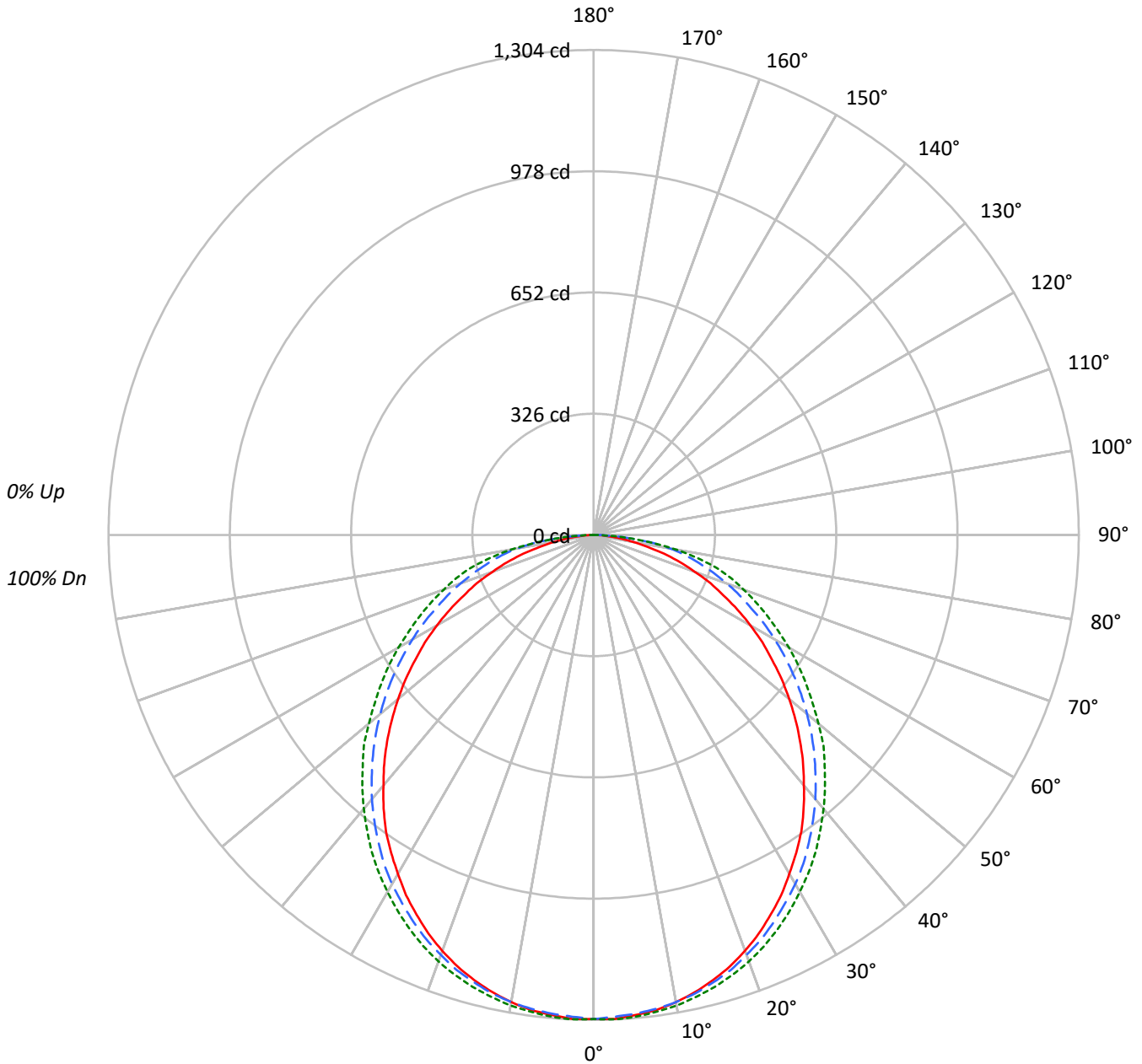
Lumens per Lamp: N/A
Luminaire Lumens: 3705.0 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83																			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69																			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42																			
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37																			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33																			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26																			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1837	1837	1837
5°	1836	1831	1842
10°	1828	1828	1842
15°	1811	1819	1838
20°	1787	1805	1833
25°	1754	1787	1822
30°	1715	1766	1806
35°	1677	1738	1792
40°	1620	1708	1771
45°	1567	1675	1752
50°	1506	1643	1731
55°	1439	1613	1715
60°	1372	1588	1711
65°	1285	1560	1721
70°	1190	1568	1768
75°	1066	1598	1867
80°	861	1693	1826
85°	648	1485	1449



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.2	3.3
10°-20°	352.1	9.5
20°-30°	529.3	14.3
30°-40°	630.4	17.0
40°-50°	645.2	17.4
50°-60°	580.9	15.7
60°-70°	456.2	12.3
70°-80°	296.1	8.0
80°-90°	91.6	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°	1004.6	27.1
0°-40°	1635.0	44.1
0°-60°	2861.2	77.2
0°-90°	3705.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3705.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1302	1302	1302	1302	1302	
5°	1296	1298	1292	1299	1300	123
15°	1239	1243	1245	1256	1258	349
25°	1126	1136	1147	1166	1170	519
35°	973	985	1009	1033	1040	607
45°	785	804	839	871	878	605
55°	585	611	656	690	697	524
65°	385	414	467	506	515	383
75°	195	233	293	333	342	207
85°	40	74	92	90	90	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1301.7	1301.7	1301.7	1301.7	1301.7
2.5°	1302.8	1302.8	1296.8	1302.8	1303.9
5°	1295.7	1298.1	1292.2	1299.2	1300.4
7.5°	1288.6	1288.6	1285.1	1292.2	1293.4
10°	1275.7	1276.8	1275.7	1283.9	1285.1
12.5°	1259.3	1261.5	1262.8	1271.0	1272.2
15°	1239.3	1242.8	1245.1	1255.7	1258.1
17.5°	1216.9	1220.4	1226.2	1238.0	1240.4
20°	1189.8	1194.5	1201.5	1216.9	1220.4
22.5°	1160.4	1165.1	1176.9	1190.9	1196.9
25°	1126.3	1135.6	1147.4	1166.2	1169.8
27.5°	1092.1	1100.3	1115.6	1135.6	1140.4
30°	1052.1	1065.0	1083.9	1103.9	1108.5
32.5°	1013.2	1026.1	1048.6	1069.8	1075.6
35°	973.3	985.0	1008.6	1033.2	1040.3
37.5°	927.3	942.6	968.6	993.3	1000.3
40°	879.1	898.0	927.3	953.3	961.5
42.5°	833.2	853.2	882.7	910.9	920.2
45°	785.0	803.8	839.1	870.9	878.0
47.5°	735.5	756.7	794.3	826.1	837.8
50°	686.1	708.5	748.5	781.4	788.5
52.5°	636.6	660.2	702.6	737.9	741.4
55°	584.9	610.8	655.5	689.7	696.8
57.5°	537.8	560.2	608.4	643.7	652.0
60°	486.1	510.7	562.5	595.5	606.0
62.5°	436.6	462.5	516.7	549.6	558.9
65°	384.8	414.3	467.2	506.1	515.4
67.5°	340.2	368.4	424.8	462.5	471.9
70°	288.3	320.2	380.1	419.0	428.4
72.5°	243.6	276.5	336.6	374.2	388.4
75°	195.4	233.0	293.1	333.1	342.4
77.5°	148.3	191.8	253.0	283.6	283.6
80°	105.9	151.9	208.3	222.5	224.7
82.5°	69.5	114.1	154.1	153.0	153.0
85°	40.0	74.2	91.7	89.5	89.5
87.5°	15.3	30.6	32.9	32.9	31.8
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)