

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: P732211

Luminaire Tested: **24CZ2-40HE-B2750-W2D-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732211
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-B2750-W2D-2700K
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

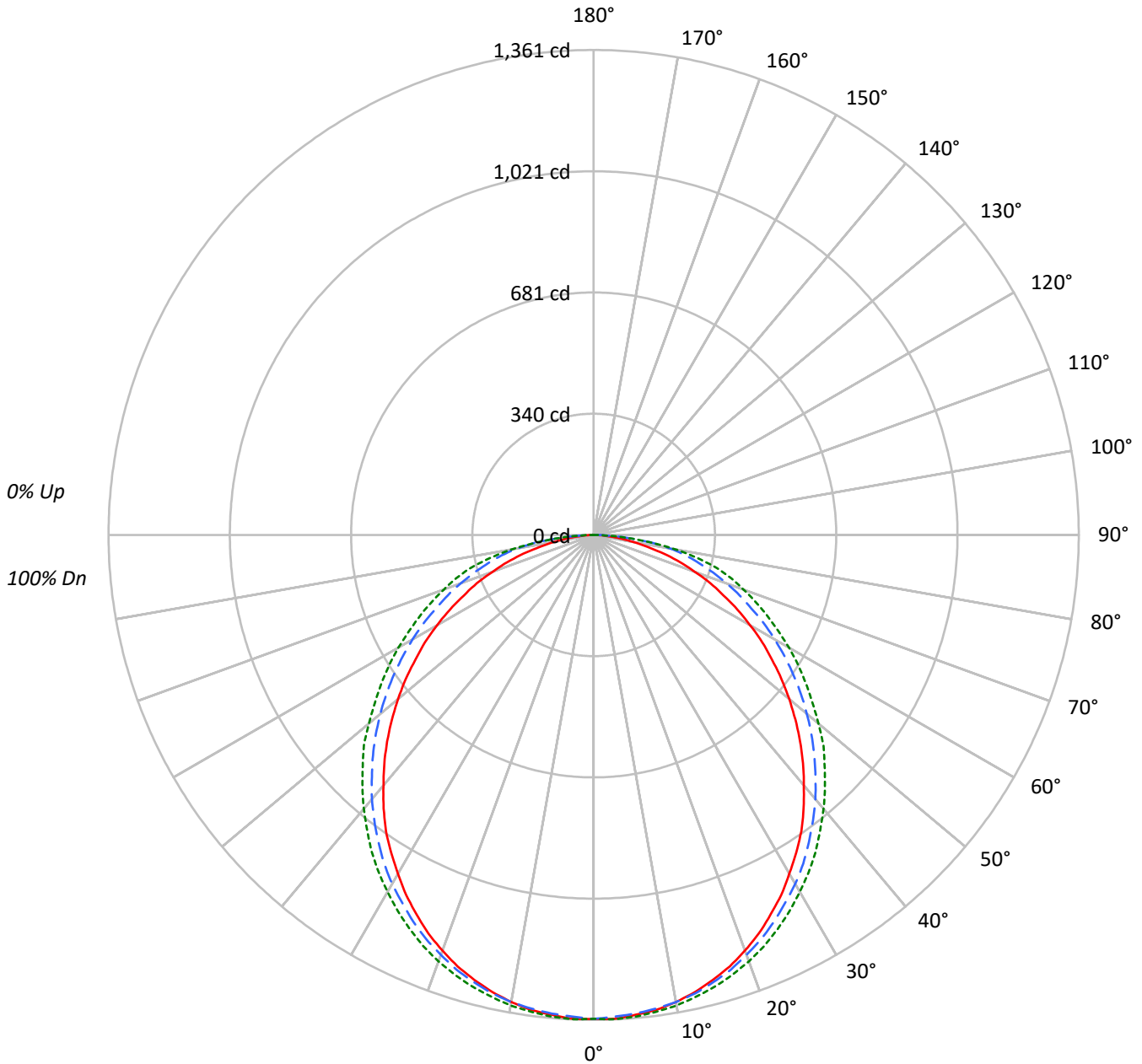
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3866.0 lumens
Efficiency: N/A
Efficacy: 133.3 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°	1917	1917	1917
5°	1915	1910	1922
10°	1908	1908	1922
15°	1889	1898	1918
20°	1865	1883	1913
25°	1830	1864	1901
30°	1789	1843	1885
35°	1750	1813	1870
40°	1690	1783	1848
45°	1635	1748	1828
50°	1572	1715	1807
55°	1502	1683	1789
60°	1432	1657	1785
65°	1341	1628	1796
70°	1241	1637	1845
75°	1112	1668	1948
80°	898	1766	1906
85°	675	1550	1512



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.6	3.3
10°-20°	367.4	9.5
20°-30°	552.3	14.3
30°-40°	657.8	17.0
40°-50°	673.3	17.4
50°-60°	606.2	15.7
60°-70°	476.0	12.3
70°-80°	308.9	8.0
80°-90°	95.5	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°	1048.2	27.1
0°-40°	1706.1	44.1
0°-60°	2985.5	77.2
0°-90°	3866.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3866.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1358	1358	1358	1358	1358	
5°	1352	1354	1348	1356	1357	128
15°	1293	1297	1299	1310	1313	365
25°	1175	1185	1197	1217	1221	541
35°	1016	1028	1052	1078	1086	634
45°	819	839	876	909	916	631
55°	610	637	684	720	727	547
65°	402	432	488	528	538	400
75°	204	243	306	348	357	216
85°	42	77	96	93	93	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1358.2	1358.2	1358.2	1358.2	<i>1358.2</i>
2.5°	<i>1359.4</i>	<i>1359.4</i>	<i>1353.2</i>	<i>1359.4</i>	<i>1360.6</i>
5°	1352.0	1354.5	1348.3	1355.7	<i>1356.9</i>
7.5°	1344.6	1344.6	1340.9	1348.3	<i>1349.6</i>
10°	1331.1	1332.3	1331.1	1339.7	<i>1340.9</i>
12.5°	1314.0	1316.3	1317.7	1326.3	<i>1327.4</i>
15°	1293.1	1296.8	1299.2	1310.3	<i>1312.8</i>
17.5°	1269.7	1273.4	1279.5	1291.8	<i>1294.3</i>
20°	1241.5	1246.4	1253.8	1269.7	<i>1273.4</i>
22.5°	1210.9	1215.7	1228.0	1242.7	<i>1248.9</i>
25°	1175.2	1185.0	1197.2	1216.9	<i>1220.6</i>
27.5°	1139.5	1148.1	1164.1	1185.0	<i>1190.0</i>
30°	1097.8	1111.3	1131.0	1151.8	<i>1156.7</i>
32.5°	1057.3	1070.7	1094.1	1116.3	<i>1122.4</i>
35°	1015.6	1027.8	1052.4	1078.1	<i>1085.5</i>
37.5°	967.6	983.6	1010.7	1036.4	<i>1043.8</i>
40°	917.3	937.0	967.6	994.7	<i>1003.3</i>
42.5°	869.4	890.2	921.0	950.5	<i>960.2</i>
45°	819.1	838.7	875.6	908.7	<i>916.1</i>
47.5°	767.4	789.6	828.8	862.0	<i>874.3</i>
50°	715.9	739.3	781.0	815.4	<i>822.8</i>
52.5°	664.3	688.9	733.1	770.0	<i>773.6</i>
55°	610.3	637.4	684.0	719.6	<i>727.0</i>
57.5°	561.2	584.6	634.9	671.7	<i>680.3</i>
60°	507.2	532.9	586.9	621.4	<i>632.4</i>
62.5°	455.5	482.6	539.1	573.5	<i>583.2</i>
65°	401.5	432.3	487.5	528.0	<i>537.8</i>
67.5°	354.9	384.4	443.3	482.6	<i>492.4</i>
70°	300.8	334.1	396.7	437.2	<i>447.0</i>
72.5°	254.2	288.5	351.2	390.4	<i>405.2</i>
75°	203.9	243.1	305.8	347.5	<i>357.3</i>
77.5°	154.8	200.2	263.9	295.9	<i>295.9</i>
80°	110.5	158.5	217.3	232.1	<i>234.5</i>
82.5°	72.5	119.1	160.8	159.6	<i>159.6</i>
85°	41.7	77.4	95.7	93.4	<i>93.4</i>
87.5°	16.0	32.0	34.3	34.3	<i>33.1</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>



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— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)