

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: P732212

Luminaire Tested: **24CZ2-40HE-B2750-W2D-3000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732212  
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-3000K  
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND RIBBED LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

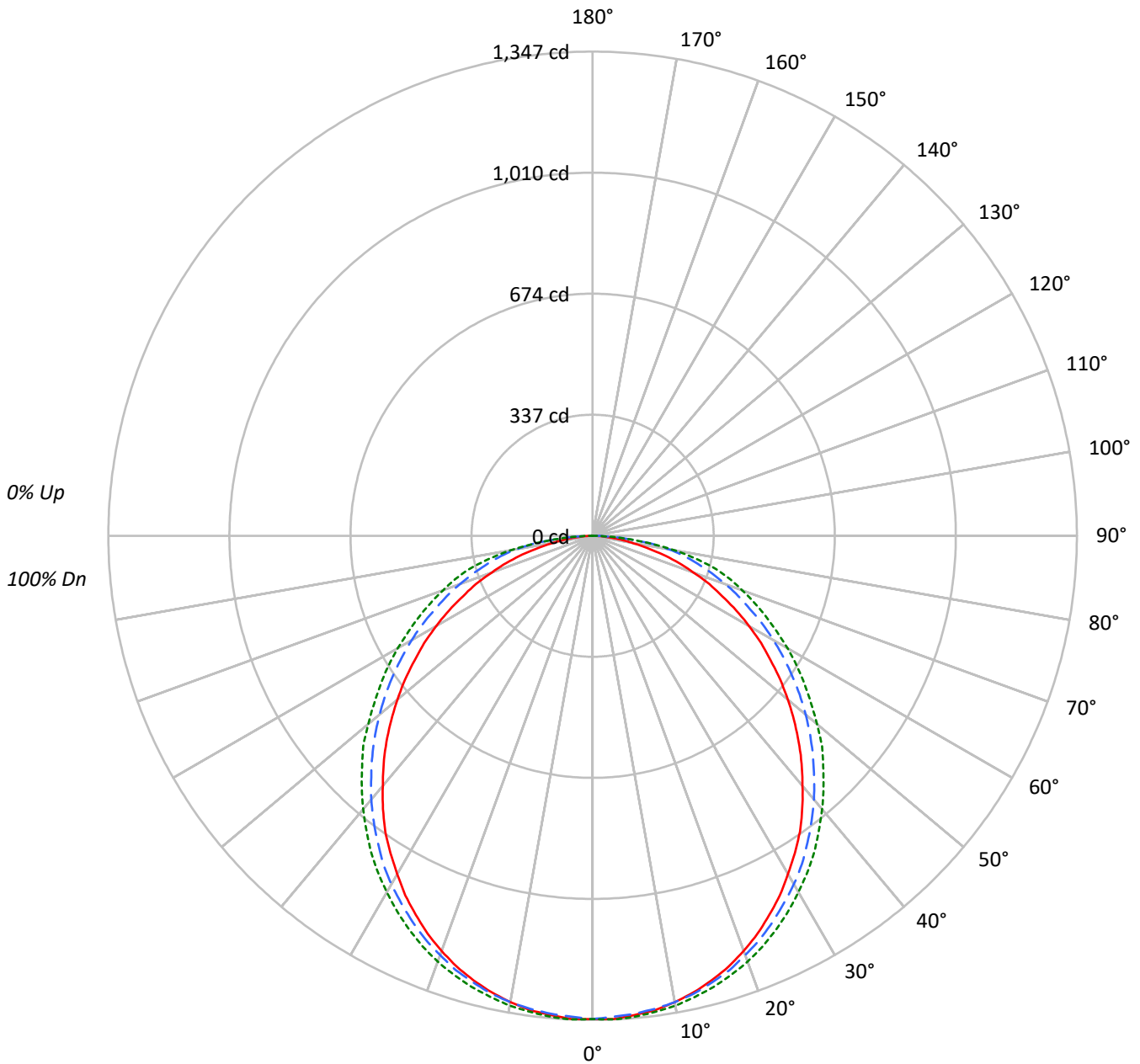
Lumens per Lamp: N/A  
Luminaire Lumens: 3827.0 lumens  
Efficiency: N/A  
Efficacy: 132.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 29  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

TEST NUMBER: P732212

CATALOG NUMBER: 24CZ2-40HE-B2750-W2D-3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P732212

CATALOG NUMBER: 24CZ2-40HE-B2750-W2D-3000K

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				20	
RC	80				70				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				100
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83				83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69				69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58				58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49				49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42				42
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37				37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33				33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29				29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26				26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24				24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1898	1898	1898
5°	1896	1891	1903
10°	1888	1888	1902
15°	1870	1879	1899
20°	1846	1864	1893
25°	1812	1846	1882
30°	1771	1824	1866
35°	1732	1795	1851
40°	1673	1765	1830
45°	1618	1730	1810
50°	1556	1698	1788
55°	1487	1666	1771
60°	1417	1640	1767
65°	1327	1612	1778
70°	1229	1620	1826
75°	1100	1651	1929
80°	889	1749	1886
85°	669	1535	1496



TEST NUMBER: P732212

CATALOG NUMBER: 24CZ2-40HE-B2750-W2D-3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.3	3.3
10°-20°	363.7	9.5
20°-30°	546.7	14.3
30°-40°	651.2	17.0
40°-50°	666.5	17.4
50°-60°	600.0	15.7
60°-70°	471.2	12.3
70°-80°	305.8	8.0
80°-90°	94.6	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°	1037.7	27.1
0°-40°	1688.9	44.1
0°-60°	2955.4	77.2
0°-90°	3827.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3827.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1344	1344	1344	1344	1344	
5°	1338	1341	1335	1342	1343	127
15°	1280	1284	1286	1297	1300	361
25°	1163	1173	1185	1205	1208	536
35°	1005	1018	1042	1067	1075	627
45°	811	830	867	900	907	625
55°	604	631	677	712	720	542
65°	398	428	483	523	532	396
75°	202	241	303	344	354	214
85°	41	77	95	92	92	50
90°	0	0	0	0	0	



TEST NUMBER: P732212

CATALOG NUMBER: 24CZ2-40HE-B2750-W2D-3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1344.5	1344.5	1344.5	1344.5	1344.5
2.5°	1345.7	1345.7	1339.5	1345.7	1346.9
5°	1338.4	1340.9	1334.7	1342.0	1343.2
7.5°	1331.0	1331.0	1327.4	1334.7	1336.0
10°	1317.7	1318.9	1317.7	1326.2	1327.4
12.5°	1300.7	1303.1	1304.4	1312.9	1314.0
15°	1280.1	1283.7	1286.1	1297.1	1299.5
17.5°	1256.9	1260.6	1266.6	1278.8	1281.2
20°	1229.0	1233.8	1241.1	1256.9	1260.6
22.5°	1198.6	1203.5	1215.6	1230.1	1236.3
25°	1163.3	1173.0	1185.2	1204.6	1208.3
27.5°	1128.0	1136.5	1152.4	1173.0	1178.0
30°	1086.7	1100.1	1119.5	1140.2	1145.0
32.5°	1046.6	1059.9	1083.1	1105.0	1111.1
35°	1005.3	1017.5	1041.8	1067.3	1074.6
37.5°	957.9	973.7	1000.5	1026.0	1033.3
40°	908.1	927.5	957.9	984.7	993.2
42.5°	860.6	881.3	911.7	940.9	950.5
45°	810.8	830.3	866.8	899.6	906.9
47.5°	759.7	781.7	820.5	853.3	865.4
50°	708.7	731.9	773.2	807.1	814.5
52.5°	657.6	681.9	725.7	762.2	765.8
55°	604.2	631.0	677.1	712.4	719.7
57.5°	555.5	578.7	628.5	664.9	673.4
60°	502.1	527.6	581.0	615.1	626.0
62.5°	451.0	477.8	533.7	567.7	577.3
65°	397.5	428.0	482.6	522.7	532.4
67.5°	351.4	380.5	438.8	477.8	487.4
70°	297.8	330.7	392.7	432.8	442.5
72.5°	251.6	285.6	347.7	386.5	401.2
75°	201.8	240.6	302.7	344.0	353.7
77.5°	153.2	198.2	261.3	292.9	292.9
80°	109.4	156.9	215.2	229.8	232.1
82.5°	71.8	117.9	159.2	158.0	158.0
85°	41.3	76.6	94.8	92.4	92.4
87.5°	15.8	31.6	34.0	34.0	32.8
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)