

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: P732229

Luminaire Tested: **24CZ2-40HE-S-B2750-W2D-4000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732229  
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-S-B2750-W2D-4000K  
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SMOOTH LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

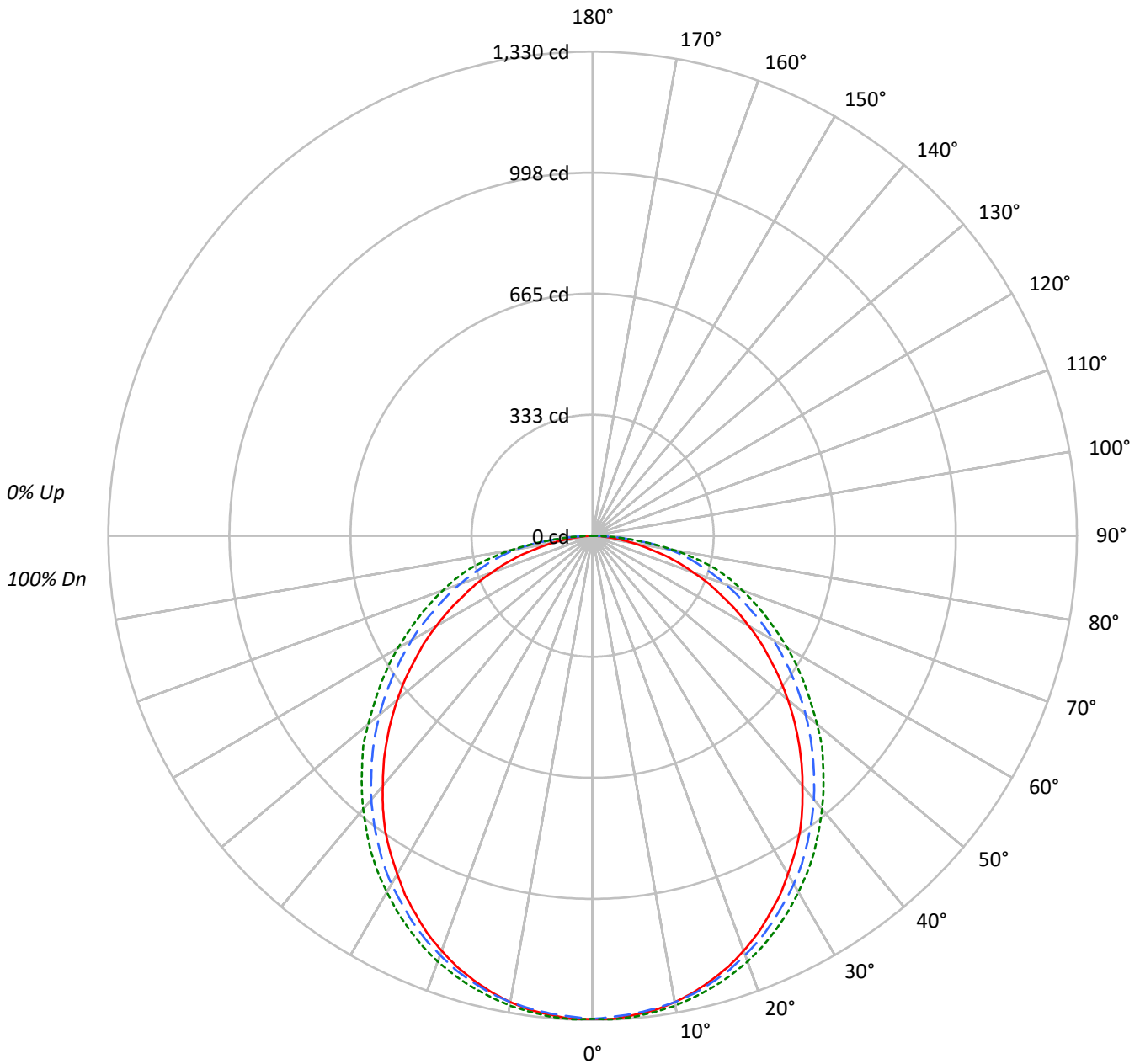
Lumens per Lamp: N/A  
Luminaire Lumens: 3778.0 lumens  
Efficiency: N/A  
Efficacy: 130.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 29  
Input Voltage (V): NR  
Input Current (A<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

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### Luminous Intensity Polar Plot





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

RF	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								
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°	1873	1873	1873
5°	1872	1867	1879
10°	1864	1864	1878
15°	1846	1855	1874
20°	1822	1840	1869
25°	1788	1822	1857
30°	1748	1801	1842
35°	1710	1772	1828
40°	1652	1742	1806
45°	1598	1708	1787
50°	1536	1676	1765
55°	1467	1645	1748
60°	1399	1619	1744
65°	1310	1591	1755
70°	1213	1599	1802
75°	1086	1630	1904
80°	878	1726	1863
85°	661	1514	1477



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.6	3.3
10°-20°	359.0	9.5
20°-30°	539.7	14.3
30°-40°	642.9	17.0
40°-50°	658.0	17.4
50°-60°	592.4	15.7
60°-70°	465.2	12.3
70°-80°	301.9	8.0
80°-90°	93.4	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°	1024.4	27.1
0°-40°	1667.2	44.1
0°-60°	2917.6	77.2
0°-90°	3778.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3778.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1327	1327	1327	1327	1327	
5°	1321	1324	1318	1325	1326	126
15°	1264	1267	1270	1280	1283	356
25°	1148	1158	1170	1189	1193	529
35°	992	1004	1028	1054	1061	619
45°	800	820	856	888	895	617
55°	596	623	668	703	710	535
65°	392	422	476	516	526	391
75°	199	238	299	340	349	211
85°	41	76	94	91	91	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1327.3	1327.3	1327.3	1327.3	1327.3
2.5°	1328.5	1328.5	1322.4	1328.5	1329.6
5°	1321.2	1323.7	1317.6	1324.8	1326.0
7.5°	1314.0	1314.0	1310.4	1317.6	1318.9
10°	1300.8	1302.0	1300.8	1309.2	1310.4
12.5°	1284.1	1286.4	1287.7	1296.1	1297.2
15°	1263.7	1267.3	1269.6	1280.5	1282.9
17.5°	1240.8	1244.5	1250.4	1262.4	1264.8
20°	1213.2	1218.0	1225.2	1240.8	1244.5
22.5°	1183.3	1188.1	1200.1	1214.4	1220.4
25°	1148.4	1158.0	1170.0	1189.2	1192.8
27.5°	1113.6	1122.0	1137.6	1158.0	1162.9
30°	1072.8	1086.0	1105.2	1125.6	1130.4
32.5°	1033.2	1046.4	1069.2	1090.9	1096.8
35°	992.4	1004.4	1028.4	1053.6	1060.8
37.5°	945.6	961.2	987.7	1012.8	1020.1
40°	896.4	915.7	945.6	972.1	980.4
42.5°	849.6	870.0	900.0	928.8	938.4
45°	800.4	819.7	855.7	888.0	895.3
47.5°	750.0	771.7	810.0	842.4	854.4
50°	699.7	722.5	763.3	796.8	804.0
52.5°	649.2	673.2	716.4	752.4	756.0
55°	596.4	622.9	668.4	703.3	710.5
57.5°	548.4	571.3	620.4	656.4	664.8
60°	495.6	520.8	573.6	607.3	618.0
62.5°	445.2	471.6	526.9	560.4	570.0
65°	392.4	422.5	476.4	516.0	525.6
67.5°	346.9	375.6	433.2	471.6	481.2
70°	293.9	326.5	387.6	427.3	436.8
72.5°	248.4	281.9	343.2	381.6	396.0
75°	199.2	237.6	298.9	339.6	349.2
77.5°	151.2	195.6	257.9	289.2	289.2
80°	108.0	154.9	212.4	226.9	229.2
82.5°	70.8	116.4	157.2	156.0	156.0
85°	40.8	75.6	93.5	91.2	91.2
87.5°	15.6	31.2	33.5	33.5	32.4
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)