

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: P732189

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732189  
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: 24CZ2-40-B2750-W2D-4000K  
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RIBBED LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

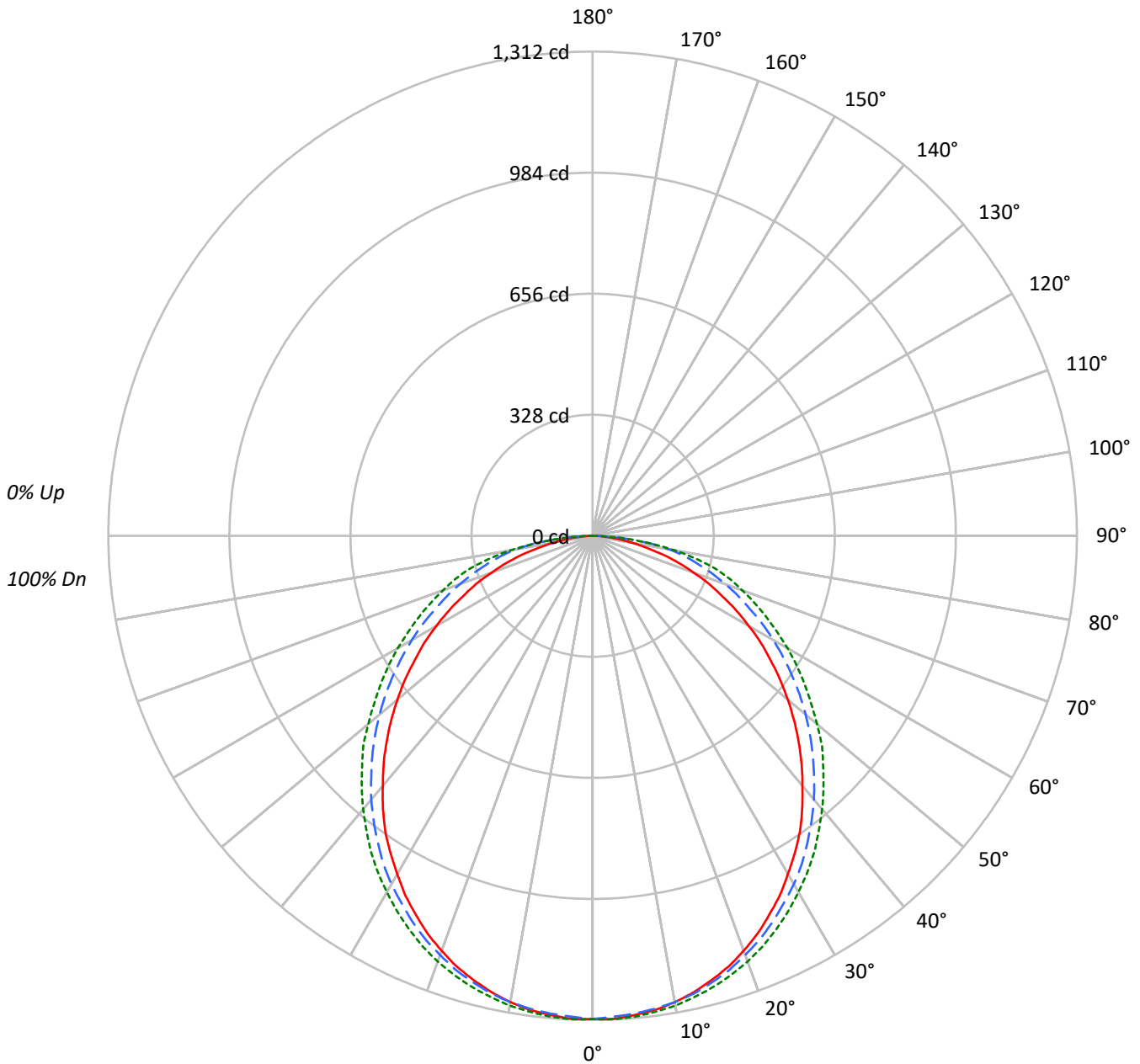
Lumens per Lamp: N/A  
Luminaire Lumens: 3727.0 lumens  
Efficiency: N/A  
Efficacy: 120.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 31  
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°	1848	1848	1848
5°	1847	1841	1853
10°	1839	1839	1853
15°	1821	1830	1849
20°	1797	1815	1844
25°	1764	1797	1832
30°	1725	1777	1817
35°	1687	1748	1803
40°	1629	1719	1782
45°	1576	1685	1763
50°	1515	1653	1742
55°	1448	1623	1725
60°	1380	1597	1721
65°	1293	1570	1732
70°	1197	1578	1778
75°	1072	1608	1879
80°	866	1703	1838
85°	651	1495	1457



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.0	3.3
10°-20°	354.2	9.5
20°-30°	532.4	14.3
30°-40°	634.2	17.0
40°-50°	649.1	17.4
50°-60°	584.4	15.7
60°-70°	458.9	12.3
70°-80°	297.8	8.0
80°-90°	92.1	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°	1010.5	27.1
0°-40°	1644.7	44.1
0°-60°	2878.2	77.2
0°-90°	3727.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3727.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1309	1309	1309	1309	1309	
5°	1303	1306	1300	1307	1308	124
15°	1247	1250	1252	1263	1266	351
25°	1133	1142	1154	1173	1177	522
35°	979	991	1015	1039	1046	611
45°	790	809	844	876	883	609
55°	588	614	659	694	701	527
65°	387	417	470	509	518	385
75°	196	234	295	335	344	208
85°	40	75	92	90	90	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1309.4	1309.4	1309.4	1309.4	1309.4
2.5°	1310.5	1310.5	1304.5	1310.5	1311.7
5°	1303.4	1305.8	1299.8	1307.0	1308.1
7.5°	1296.3	1296.3	1292.7	1299.8	1301.1
10°	1283.3	1284.4	1283.3	1291.6	1292.7
12.5°	1266.7	1269.0	1270.3	1278.6	1279.7
15°	1246.6	1250.2	1252.5	1263.2	1265.6
17.5°	1224.1	1227.7	1233.5	1245.3	1247.8
20°	1196.8	1201.5	1208.7	1224.1	1227.7
22.5°	1167.3	1172.0	1183.9	1198.0	1204.0
25°	1132.9	1142.4	1154.2	1173.2	1176.7
27.5°	1098.6	1106.8	1122.2	1142.4	1147.2
30°	1058.3	1071.3	1090.3	1110.4	1115.1
32.5°	1019.3	1032.2	1054.8	1076.2	1082.0
35°	979.0	990.9	1014.6	1039.4	1046.5
37.5°	932.8	948.2	974.3	999.2	1006.3
40°	884.3	903.3	932.8	958.9	967.2
42.5°	838.1	858.2	887.9	916.3	925.7
45°	789.6	808.6	844.1	876.1	883.2
47.5°	739.8	761.2	799.0	831.0	842.8
50°	690.2	712.7	753.0	786.1	793.2
52.5°	640.4	664.1	706.8	742.3	745.8
55°	588.4	614.5	659.4	693.8	700.9
57.5°	541.0	563.5	612.0	647.6	655.8
60°	488.9	513.8	565.8	599.1	609.6
62.5°	439.2	465.3	519.8	552.8	562.3
65°	387.1	416.8	470.0	509.1	518.5
67.5°	342.2	370.6	427.3	465.3	474.7
70°	290.0	322.1	382.4	421.5	430.9
72.5°	245.0	278.1	338.6	376.4	390.7
75°	196.5	234.3	294.8	335.0	344.5
77.5°	149.2	193.0	254.5	285.3	285.3
80°	106.5	152.8	209.5	223.8	226.1
82.5°	69.9	114.8	155.0	153.9	153.9
85°	40.2	74.6	92.3	90.0	90.0
87.5°	15.4	30.8	33.1	33.1	32.0
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)