

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: P732333

Luminaire Tested: **24CZ2-50HE-SQR-B2750-W2D-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732333  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P388488)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-50HE-SQR-B2750-W2D-3500K  
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SQR LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

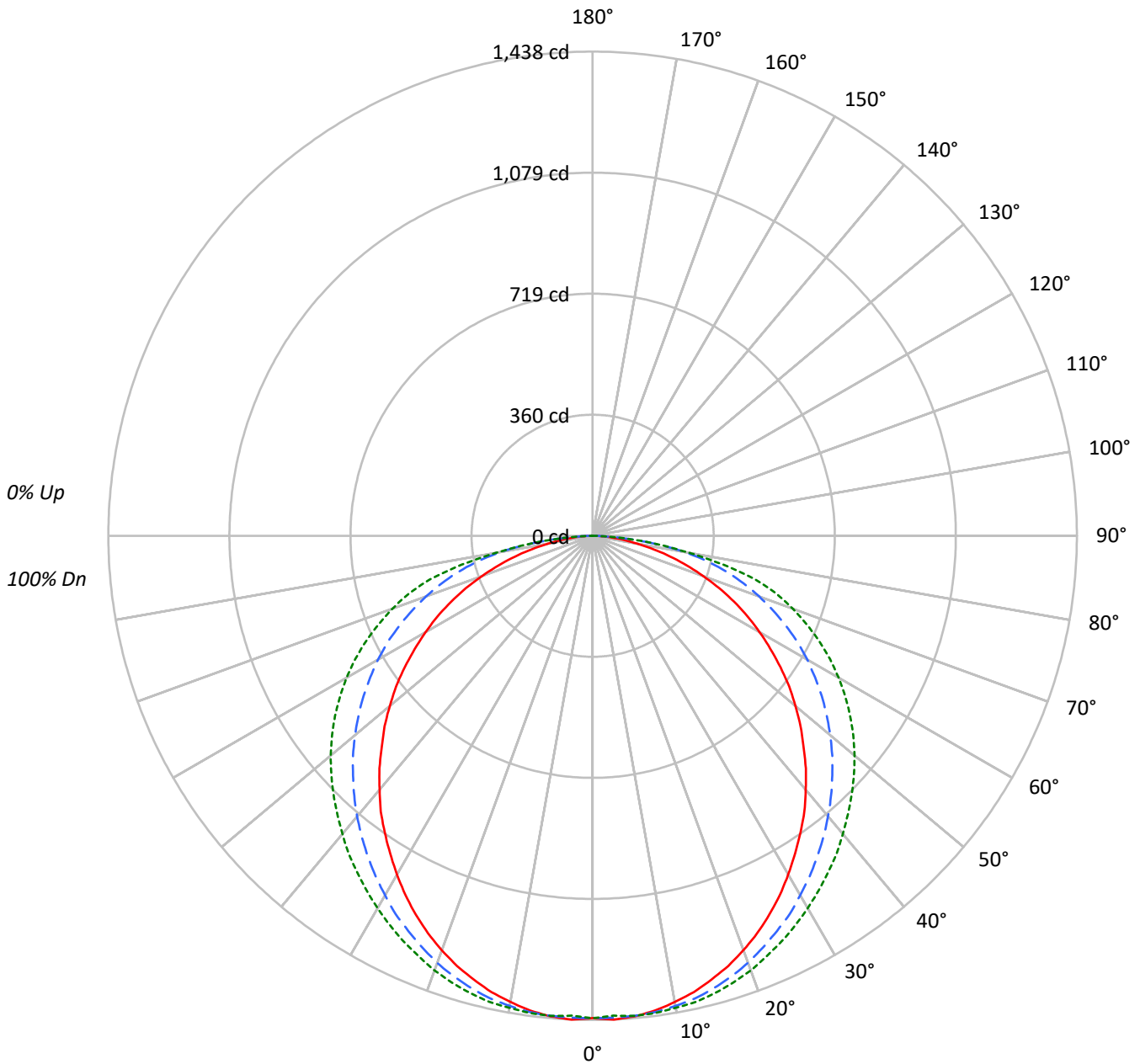
Lumens per Lamp: N/A  
Luminaire Lumens: 4482.0 lumens  
Efficiency: N/A  
Efficacy: 121.1 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 37  
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	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82								
2	98	89	81	75	95	87	80	74	83	78	73	80	75	71	77	73	69	67								
3	89	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56								
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	60	54	49	47								
5	74	61	51	44	72	60	51	44	57	50	44	55	49	43	54	48	43	41								
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35								
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31								
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	30	28								
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25								
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22								

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

	0°	45°	90°
0°	2022	2022	2022
5°	2030	2028	2028
10°	2015	2032	2040
15°	1994	2033	2054
20°	1967	2027	2063
25°	1934	2017	2070
30°	1893	2009	2082
35°	1854	2004	2101
40°	1813	2004	2130
45°	1766	2009	2171
50°	1726	2021	2229
55°	1675	2043	2298
60°	1617	2076	2381
65°	1547	2115	2481
70°	1435	2168	2608
75°	1299	2243	2728
80°	1094	2250	2345
85°	837	1700	1700



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.0	3.0
10°-20°	391.3	8.7
20°-30°	594.3	13.3
30°-40°	722.9	16.1
40°-50°	769.6	17.2
50°-60°	733.1	16.4
60°-70°	613.0	13.7
70°-80°	408.7	9.1
80°-90°	113.1	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°	1121.6	25.0
0°-40°	1844.5	41.2
0°-60°	3347.2	74.7
0°-90°	4482.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4482.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1433	1433	1433	1433	1433	
5°	1433	1424	1431	1431	1431	136
15°	1364	1368	1391	1402	1406	385
25°	1242	1258	1295	1317	1329	572
35°	1076	1107	1163	1202	1220	673
45°	885	932	1006	1063	1088	684
55°	681	740	830	903	934	609
65°	463	531	633	712	743	458
75°	238	314	411	481	500	252
85°	52	96	105	104	105	63
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1432.6	1432.6	1432.6	1432.6	1432.6
2.5°	1438.5	1428.2	1432.6	1432.6	1426.8
5°	1432.6	1423.7	1431.2	1431.2	1431.2
7.5°	1422.4	1414.9	1426.8	1429.7	1429.7
10°	1406.0	1403.2	1418.0	1422.4	1423.7
12.5°	1388.3	1386.8	1407.6	1413.4	1418.0
15°	1364.5	1367.6	1391.2	1401.6	1406.0
17.5°	1339.5	1345.3	1372.0	1386.8	1391.2
20°	1309.9	1318.7	1349.9	1364.5	1373.5
22.5°	1277.4	1290.6	1323.1	1340.8	1351.2
25°	1241.8	1257.9	1295.1	1317.2	1329.1
27.5°	1203.3	1224.1	1267.0	1292.0	1303.9
30°	1161.8	1185.4	1232.9	1262.6	1277.4
32.5°	1118.9	1147.0	1198.9	1231.4	1249.1
35°	1076.0	1107.1	1163.3	1201.8	1219.5
37.5°	1033.1	1064.1	1126.4	1167.7	1190.0
40°	984.2	1021.2	1087.9	1133.7	1156.0
42.5°	936.9	976.7	1047.9	1098.1	1121.9
45°	885.0	932.5	1006.3	1062.7	1087.9
47.5°	837.7	885.0	965.0	1024.2	1052.3
50°	785.9	836.1	920.6	985.8	1015.4
52.5°	735.5	787.5	876.1	945.8	975.4
55°	680.9	740.0	830.4	902.9	933.8
57.5°	626.1	689.7	782.8	858.4	889.6
60°	572.8	637.8	735.5	811.1	843.6
62.5°	519.5	584.5	686.7	763.6	794.8
65°	463.2	531.3	633.4	711.9	743.0
67.5°	407.0	478.0	580.1	658.6	688.2
70°	347.8	423.4	525.5	602.4	632.0
72.5°	293.1	368.5	469.1	544.7	572.8
75°	238.3	313.7	411.4	481.1	500.3
77.5°	185.0	260.4	347.8	393.7	398.2
80°	134.6	205.8	276.8	290.1	288.5
82.5°	90.2	153.9	191.0	192.3	196.8
85°	51.7	96.2	105.0	103.7	105.0
87.5°	20.8	34.0	29.6	22.1	22.1
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)