

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: P732357

Luminaire Tested: **24CZ2-55HE-SQR-B2750-W2D-3000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732357  
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: 24CZ2-55HE-SQR-B2750-W2D-3000K  
Description: 2X4 5500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SQR LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

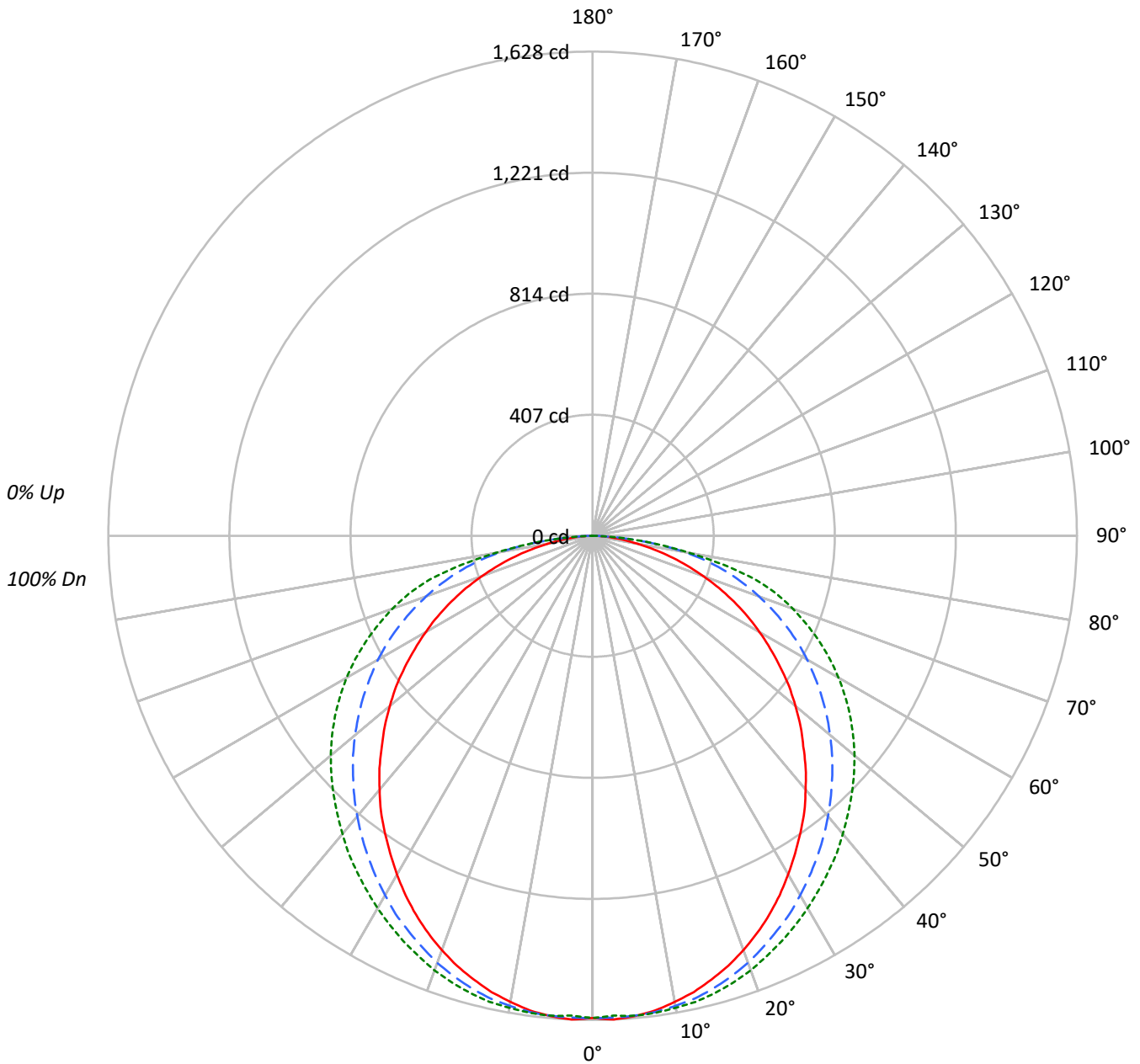
Lumens per Lamp: N/A  
Luminaire Lumens: 5073.0 lumens  
Efficiency: N/A  
Efficacy: 120.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 42  
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									
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	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°	2288	2288	2288
5°	2297	2295	2295
10°	2281	2300	2309
15°	2257	2301	2325
20°	2227	2295	2335
25°	2189	2283	2343
30°	2143	2274	2356
35°	2098	2269	2378
40°	2052	2269	2411
45°	1999	2273	2458
50°	1953	2288	2523
55°	1896	2312	2601
60°	1830	2350	2695
65°	1751	2394	2809
70°	1624	2454	2952
75°	1471	2539	3088
80°	1239	2546	2654
85°	949	1925	1925



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.9	3.0
10°-20°	442.9	8.7
20°-30°	672.7	13.3
30°-40°	818.2	16.1
40°-50°	871.1	17.2
50°-60°	829.7	16.4
60°-70°	693.8	13.7
70°-80°	462.6	9.1
80°-90°	128.0	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°	1269.5	25.0
0°-40°	2087.7	41.2
0°-60°	3788.5	74.7
0°-90°	5073.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5073.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1622	1622	1622	1622	1622	
5°	1622	1612	1620	1620	1620	154
15°	1544	1548	1575	1586	1591	436
25°	1406	1424	1466	1491	1504	647
35°	1218	1253	1317	1360	1380	762
45°	1002	1055	1139	1203	1231	774
55°	771	838	940	1022	1057	689
65°	524	601	717	806	841	518
75°	270	355	466	544	566	286
85°	59	109	119	117	119	71
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1621.5	1621.5	1621.5	1621.5	1621.5
2.5°	1628.2	1616.5	1621.5	1621.5	1615.0
5°	1621.5	1611.5	1620.0	1620.0	1620.0
7.5°	1610.0	1601.5	1615.0	1618.2	1618.2
10°	1591.4	1588.2	1604.9	1610.0	1611.5
12.5°	1571.4	1569.7	1593.2	1599.7	1604.9
15°	1544.4	1547.9	1574.7	1586.4	1591.4
17.5°	1516.1	1522.6	1552.9	1569.7	1574.7
20°	1482.6	1492.6	1527.9	1544.4	1554.7
22.5°	1445.8	1460.8	1497.6	1517.6	1529.4
25°	1405.5	1423.8	1465.8	1490.9	1504.4
27.5°	1362.0	1385.5	1434.0	1462.3	1475.8
30°	1315.0	1341.7	1395.5	1429.0	1445.8
32.5°	1266.4	1298.2	1357.0	1393.8	1413.8
35°	1217.9	1253.1	1316.7	1360.2	1380.3
37.5°	1169.3	1204.4	1274.9	1321.7	1347.0
40°	1114.0	1155.8	1231.4	1283.2	1308.4
42.5°	1060.5	1105.5	1186.1	1242.9	1269.9
45°	1001.7	1055.4	1139.0	1202.8	1231.4
47.5°	948.1	1001.7	1092.2	1159.3	1191.1
50°	889.6	946.4	1042.0	1115.8	1149.3
52.5°	832.5	891.3	991.7	1070.5	1104.0
55°	770.7	837.5	939.8	1021.9	1057.0
57.5°	708.6	780.7	886.1	971.6	1006.9
60°	648.3	721.9	832.5	918.1	954.9
62.5°	588.0	661.6	777.2	864.3	899.6
65°	524.2	601.3	716.9	805.7	841.0
67.5°	460.7	541.0	656.6	745.4	779.0
70°	393.6	479.2	594.8	681.9	715.4
72.5°	331.8	417.1	531.0	616.5	648.3
75°	269.7	355.1	465.7	544.5	566.3
77.5°	209.4	294.8	393.6	445.6	450.7
80°	152.4	232.9	313.3	328.3	326.6
82.5°	102.1	174.2	216.2	217.7	222.7
85°	58.6	108.9	118.9	117.3	118.9
87.5°	23.5	38.5	33.5	25.0	25.0
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)