

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: P732382

Luminaire Tested: **24CZ2-60HE-SQR-B2750-W2D-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732382
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: 24CZ2-60HE-SQR-B2750-W2D-3000K
Description: 2X4 6000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Summary

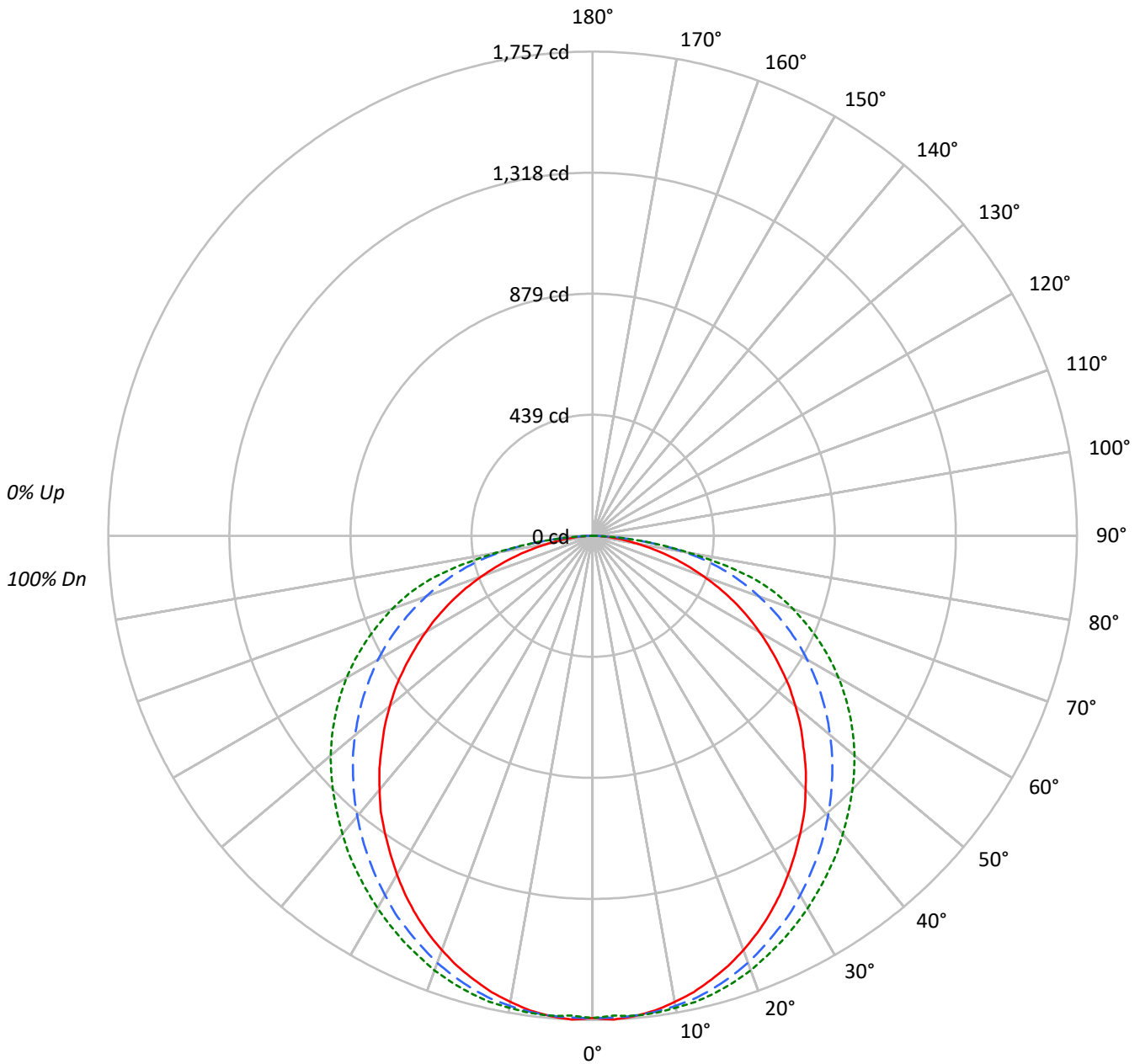
Lumens per Lamp: N/A
Luminaire Lumens: 5475.0 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 45
Input Voltage (V): NR
Input Current (A_{in}): 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°	2470	2470	2470
5°	2479	2477	2477
10°	2462	2482	2492
15°	2435	2483	2510
20°	2403	2477	2520
25°	2362	2464	2528
30°	2313	2454	2543
35°	2265	2448	2566
40°	2215	2448	2602
45°	2158	2454	2652
50°	2108	2469	2723
55°	2047	2496	2807
60°	1975	2536	2909
65°	1889	2584	3031
70°	1753	2649	3186
75°	1587	2741	3332
80°	1337	2748	2864
85°	1023	2078	2078



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.1	3.0
10°-20°	478.0	8.7
20°-30°	726.0	13.3
30°-40°	883.1	16.1
40°-50°	940.2	17.2
50°-60°	895.5	16.4
60°-70°	748.8	13.7
70°-80°	499.3	9.1
80°-90°	138.1	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°	1370.1	25.0
0°-40°	2253.1	41.2
0°-60°	4088.8	74.7
0°-90°	5475.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5475.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1750	1750	1750	1750	1750	
5°	1750	1739	1748	1748	1748	166
15°	1667	1671	1700	1712	1718	470
25°	1517	1537	1582	1609	1624	698
35°	1314	1352	1421	1468	1490	823
45°	1081	1139	1229	1298	1329	836
55°	832	904	1014	1103	1141	743
65°	566	649	774	870	908	559
75°	291	383	503	588	611	308
85°	63	118	128	127	128	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1750.0	1750.0	1750.0	1750.0	1750.0
2.5°	1757.3	1744.6	1750.0	1750.0	1742.9
5°	1750.0	1739.2	1748.3	1748.3	1748.3
7.5°	1737.5	1728.4	1742.9	1746.5	1746.5
10°	1717.6	1714.0	1732.1	1737.5	1739.2
12.5°	1695.9	1694.1	1719.4	1726.5	1732.1
15°	1666.8	1670.6	1699.5	1712.2	1717.6
17.5°	1636.3	1643.3	1676.0	1694.1	1699.5
20°	1600.1	1610.9	1648.9	1666.8	1677.8
22.5°	1560.4	1576.6	1616.3	1637.9	1650.6
25°	1516.9	1536.6	1582.0	1609.0	1623.6
27.5°	1469.9	1495.3	1547.7	1578.2	1592.8
30°	1419.2	1448.1	1506.1	1542.3	1560.4
32.5°	1366.8	1401.1	1464.5	1504.2	1525.8
35°	1314.4	1352.4	1421.0	1468.0	1489.6
37.5°	1262.0	1299.8	1375.9	1426.4	1453.7
40°	1202.3	1247.4	1328.9	1384.9	1412.1
42.5°	1144.5	1193.1	1280.1	1341.4	1370.5
45°	1081.0	1139.1	1229.3	1298.2	1328.9
47.5°	1023.2	1081.0	1178.8	1251.2	1285.5
50°	960.0	1021.4	1124.5	1204.2	1240.4
52.5°	898.5	961.9	1070.2	1155.3	1191.5
55°	831.8	903.9	1014.3	1102.9	1140.7
57.5°	764.8	842.6	956.3	1048.6	1086.7
60°	699.7	779.1	898.5	990.8	1030.5
62.5°	634.6	714.0	838.8	932.8	970.9
65°	565.8	649.0	773.7	869.6	907.6
67.5°	497.2	583.9	708.6	804.5	840.7
70°	424.8	517.1	641.9	735.9	772.1
72.5°	358.1	450.2	573.1	665.4	699.7
75°	291.1	383.2	502.6	587.6	611.1
77.5°	226.0	318.1	424.8	481.0	486.4
80°	164.5	251.4	338.1	354.3	352.4
82.5°	110.2	188.0	233.3	235.0	240.4
85°	63.2	117.5	128.3	126.6	128.3
87.5°	25.4	41.6	36.2	27.0	27.0
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)