

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: P732332

Luminaire Tested: **24CZ2-50HE-SQR-B2750-W2D-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732332
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-3000K
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Summary

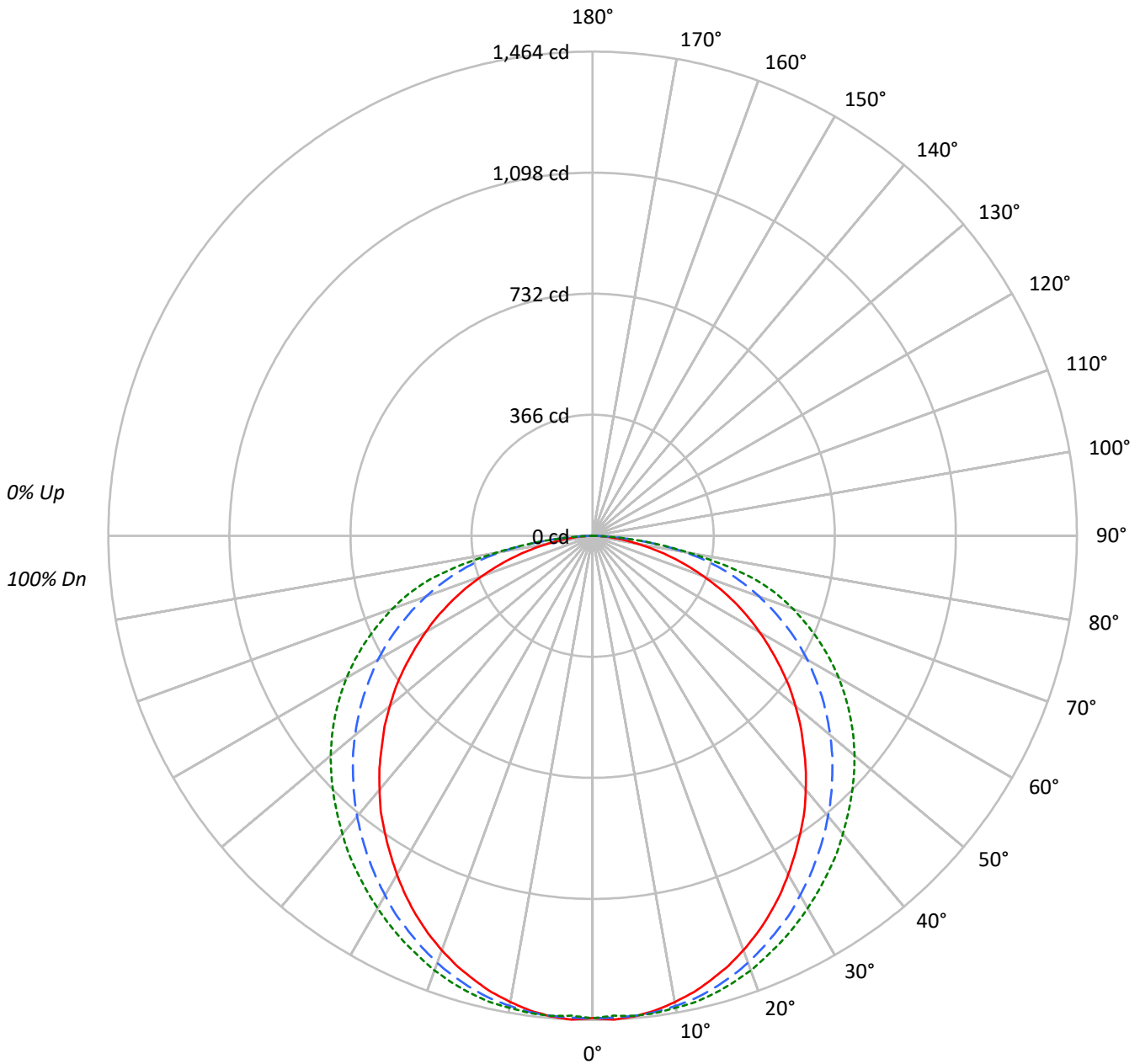
Lumens per Lamp: N/A
Luminaire Lumens: 4563.0 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 37
Input Voltage (V): NR
Input Current (A_{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

TEST NUMBER: P732332

CATALOG NUMBER: 24CZ2-50HE-SQR-B2750-W2D-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P732332

CATALOG NUMBER: 24CZ2-50HE-SQR-B2750-W2D-3000K

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°	2058	2058	2058
5°	2066	2064	2064
10°	2051	2069	2077
15°	2030	2070	2092
20°	2003	2064	2100
25°	1969	2053	2107
30°	1928	2046	2119
35°	1887	2040	2139
40°	1846	2041	2168
45°	1798	2045	2211
50°	1757	2058	2270
55°	1706	2080	2339
60°	1646	2114	2424
65°	1575	2153	2526
70°	1461	2208	2655
75°	1323	2284	2777
80°	1114	2290	2387
85°	853	1731	1731



TEST NUMBER: P732332

CATALOG NUMBER: 24CZ2-50HE-SQR-B2750-W2D-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.5	3.0
10°-20°	398.3	8.7
20°-30°	605.1	13.3
30°-40°	736.0	16.1
40°-50°	783.5	17.2
50°-60°	746.3	16.4
60°-70°	624.1	13.7
70°-80°	416.1	9.1
80°-90°	115.1	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°	1141.9	25.0
0°-40°	1877.8	41.2
0°-60°	3407.7	74.7
0°-90°	4563.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4563.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1458	1458	1458	1458	1458	
5°	1458	1450	1457	1457	1457	138
15°	1389	1392	1416	1427	1432	392
25°	1264	1281	1318	1341	1353	582
35°	1095	1127	1184	1224	1242	685
45°	901	949	1024	1082	1108	697
55°	693	753	845	919	951	620
65°	472	541	645	725	756	466
75°	243	319	419	490	509	257
85°	53	98	107	106	107	64
90°	0	0	0	0	0	



TEST NUMBER: P732332

CATALOG NUMBER: 24CZ2-50HE-SQR-B2750-W2D-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1458.5	1458.5	1458.5	1458.5	1458.5
2.5°	1464.5	1454.0	1458.5	1458.5	1452.6
5°	1458.5	1449.5	1457.1	1457.1	1457.1
7.5°	1448.1	1440.5	1452.6	1455.5	1455.5
10°	1431.5	1428.5	1443.6	1448.1	1449.5
12.5°	1413.4	1411.9	1433.0	1438.9	1443.6
15°	1389.2	1392.3	1416.4	1426.9	1431.5
17.5°	1363.7	1369.6	1396.8	1411.9	1416.4
20°	1333.5	1342.6	1374.3	1389.2	1398.4
22.5°	1300.4	1314.0	1347.1	1365.1	1375.6
25°	1264.2	1280.7	1318.5	1341.0	1353.1
27.5°	1225.1	1246.2	1289.9	1315.3	1327.5
30°	1182.8	1206.8	1255.2	1285.4	1300.4
32.5°	1139.1	1167.7	1220.6	1253.6	1271.7
35°	1095.4	1127.1	1184.3	1223.5	1241.5
37.5°	1051.8	1083.3	1146.7	1188.8	1211.5
40°	1002.0	1039.6	1107.6	1154.2	1176.9
42.5°	953.8	994.4	1066.8	1117.9	1142.2
45°	901.0	949.3	1024.5	1081.9	1107.6
47.5°	852.8	901.0	982.4	1042.7	1071.3
50°	800.1	851.2	937.2	1003.6	1033.7
52.5°	748.8	801.7	892.0	962.9	993.0
55°	693.2	753.3	845.4	919.2	950.7
57.5°	637.4	702.2	797.0	874.0	905.7
60°	583.2	649.3	748.8	825.8	858.9
62.5°	528.9	595.1	699.1	777.4	809.1
65°	471.5	540.9	644.8	724.7	756.5
67.5°	414.4	486.6	590.6	670.5	700.6
70°	354.0	431.0	535.0	613.3	643.5
72.5°	298.4	375.2	477.6	554.6	583.2
75°	242.6	319.4	418.9	489.7	509.3
77.5°	188.4	265.1	354.0	400.8	405.3
80°	137.1	209.5	281.8	295.3	293.7
82.5°	91.8	156.7	194.5	195.8	200.3
85°	52.7	97.9	106.9	105.5	106.9
87.5°	21.1	34.7	30.2	22.5	22.5
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)