

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: P732262

Luminaire Tested: **24CZ2-45HE-B2750-W2D-3000K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P732262
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: 24CZ2-45HE-B2750-W2D-3000K
Description: 2X4 4500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Summary

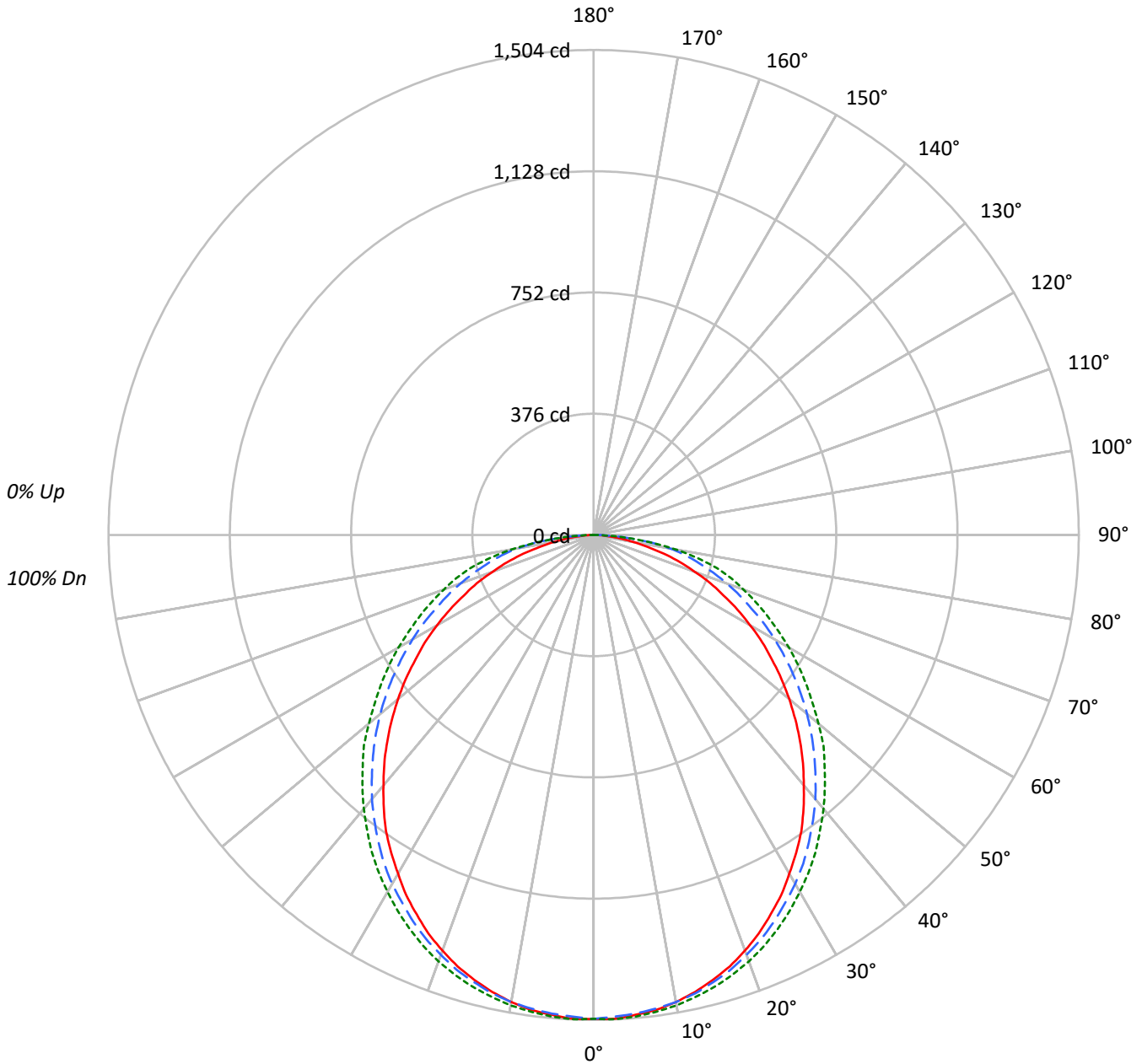
Lumens per Lamp: N/A
Luminaire Lumens: 4272.0 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): 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				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				100
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83				83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69				69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58				58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49				49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42				42
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37				37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33				33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29				29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26				26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24				24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2118	2118	2118
5°	2117	2111	2124
10°	2108	2108	2123
15°	2088	2098	2120
20°	2060	2081	2113
25°	2022	2060	2100
30°	1977	2037	2083
35°	1933	2004	2067
40°	1867	1970	2042
45°	1807	1931	2020
50°	1737	1895	1996
55°	1659	1860	1977
60°	1582	1831	1972
65°	1482	1799	1985
70°	1372	1809	2038
75°	1229	1843	2153
80°	992	1952	2106
85°	747	1713	1671



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.1	3.3
10°-20°	406.0	9.5
20°-30°	610.3	14.3
30°-40°	726.9	17.0
40°-50°	744.0	17.4
50°-60°	669.8	15.7
60°-70°	526.0	12.3
70°-80°	341.4	8.0
80°-90°	105.6	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°	1158.3	27.1
0°-40°	1885.2	44.1
0°-60°	3299.0	77.2
0°-90°	4272.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4272.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1501	1501	1501	1501	1501	
5°	1494	1497	1490	1498	1499	142
15°	1429	1433	1436	1448	1451	403
25°	1299	1309	1323	1345	1349	598
35°	1122	1136	1163	1191	1200	700
45°	905	927	968	1004	1012	698
55°	674	704	756	795	803	605
65°	444	478	539	584	594	442
75°	225	269	338	384	395	238
85°	46	86	106	103	103	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1500.9	1500.9	1500.9	1500.9	1500.9
2.5°	1502.2	1502.2	1495.3	1502.2	1503.5
5°	1494.0	1496.8	1489.9	1498.1	1499.4
7.5°	1485.8	1485.8	1481.7	1489.9	1491.4
10°	1470.9	1472.2	1470.9	1480.4	1481.7
12.5°	1452.0	1454.6	1456.1	1465.5	1466.8
15°	1428.9	1433.0	1435.6	1447.9	1450.7
17.5°	1403.1	1407.2	1413.9	1427.4	1430.2
20°	1371.9	1377.3	1385.4	1403.1	1407.2
22.5°	1338.0	1343.4	1357.0	1373.2	1380.0
25°	1298.6	1309.4	1323.0	1344.7	1348.8
27.5°	1259.2	1268.7	1286.4	1309.4	1315.0
30°	1213.1	1228.0	1249.7	1272.8	1278.2
32.5°	1168.3	1183.2	1209.0	1233.5	1240.2
35°	1122.2	1135.8	1162.9	1191.4	1199.5
37.5°	1069.2	1086.9	1116.8	1145.3	1153.4
40°	1013.6	1035.4	1069.2	1099.2	1108.6
42.5°	960.7	983.7	1017.7	1050.3	1061.1
45°	905.1	926.8	967.5	1004.2	1012.3
47.5°	848.0	872.6	915.9	952.5	966.1
50°	791.1	817.0	863.1	901.0	909.2
52.5°	734.1	761.2	810.1	850.8	854.9
55°	674.4	704.3	755.8	795.2	803.4
57.5°	620.1	646.0	701.5	742.3	751.7
60°	560.4	588.9	648.6	686.7	698.8
62.5°	503.4	533.3	595.8	633.7	644.5
65°	443.7	477.7	538.7	583.5	594.3
67.5°	392.2	424.8	489.8	533.3	544.1
70°	332.4	369.2	438.3	483.1	493.9
72.5°	280.9	318.8	388.1	431.5	447.8
75°	225.3	268.6	337.9	384.0	394.8
77.5°	171.0	221.2	291.7	327.0	327.0
80°	122.1	175.1	240.2	256.5	259.1
82.5°	80.1	131.6	177.7	176.4	176.4
85°	46.1	85.5	105.8	103.2	103.2
87.5°	17.7	35.3	37.9	37.9	36.6
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)