

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: P732236

Luminaire Tested: **24CZ2-45-B2750-W2D-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732236
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: 24CZ2-45-B2750-W2D-2700K
Description: 2X4 4500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Summary

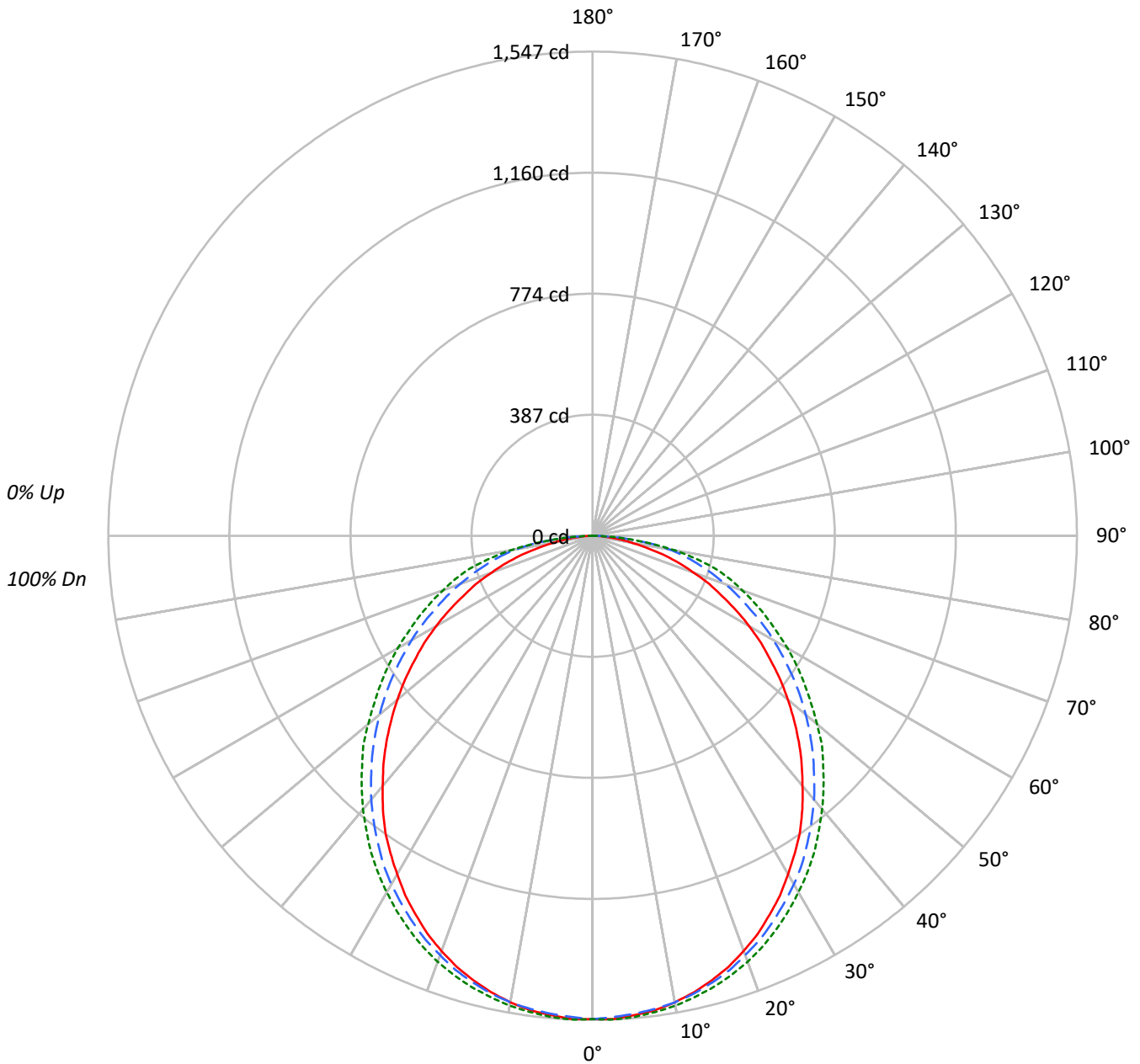
Lumens per Lamp: N/A
Luminaire Lumens: 4396.0 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2180	2180	2180
5°	2178	2172	2186
10°	2169	2169	2185
15°	2148	2159	2181
20°	2120	2141	2175
25°	2081	2120	2161
30°	2034	2096	2144
35°	1990	2062	2127
40°	1922	2027	2102
45°	1859	1987	2079
50°	1787	1950	2054
55°	1708	1914	2034
60°	1628	1884	2030
65°	1525	1851	2042
70°	1411	1861	2097
75°	1264	1896	2216
80°	1022	2008	2168
85°	768	1762	1720



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.2	3.3
10°-20°	417.8	9.5
20°-30°	628.0	14.3
30°-40°	748.0	17.0
40°-50°	765.6	17.4
50°-60°	689.3	15.7
60°-70°	541.3	12.3
70°-80°	351.3	8.0
80°-90°	108.6	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°	1191.9	27.1
0°-40°	1939.9	44.1
0°-60°	3394.8	77.2
0°-90°	4396.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4396.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1544	1544	1544	1544	1544	
5°	1537	1540	1533	1542	1543	146
15°	1470	1475	1477	1490	1493	415
25°	1336	1347	1361	1384	1388	616
35°	1155	1169	1197	1226	1234	720
45°	931	954	996	1033	1042	718
55°	694	725	778	818	827	622
65°	457	492	554	600	612	455
75°	232	276	348	395	406	245
85°	47	88	109	106	106	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1544.4	1544.4	1544.4	1544.4	1544.4
2.5°	1545.8	1545.8	1538.7	1545.8	1547.1
5°	1537.3	1540.2	1533.1	1541.6	1542.9
7.5°	1528.9	1528.9	1524.7	1533.1	1534.7
10°	1513.6	1515.0	1513.6	1523.4	1524.7
12.5°	1494.1	1496.8	1498.3	1508.1	1509.4
15°	1470.4	1474.6	1477.3	1489.9	1492.8
17.5°	1443.8	1448.0	1454.9	1468.9	1471.7
20°	1411.7	1417.2	1425.6	1443.8	1448.0
22.5°	1376.9	1382.4	1396.4	1413.0	1420.1
25°	1336.3	1347.4	1361.4	1383.7	1388.0
27.5°	1295.8	1305.5	1323.7	1347.4	1353.1
30°	1248.3	1263.6	1286.0	1309.7	1315.3
32.5°	1202.2	1217.5	1244.1	1269.3	1276.2
35°	1154.8	1168.7	1196.7	1225.9	1234.4
37.5°	1100.3	1118.4	1149.2	1178.5	1186.9
40°	1043.1	1065.4	1100.3	1131.1	1140.8
42.5°	988.6	1012.3	1047.3	1080.8	1091.9
45°	931.4	953.7	995.6	1033.3	1041.7
47.5°	872.6	897.9	942.5	980.1	994.1
50°	814.1	840.7	888.1	927.2	935.6
52.5°	755.4	783.3	833.6	875.5	879.7
55°	694.0	724.8	777.8	818.3	826.7
57.5°	638.1	664.7	721.9	763.8	773.6
60°	576.7	606.0	667.4	706.6	719.0
62.5°	518.0	548.8	613.1	652.1	663.2
65°	456.6	491.6	554.3	600.4	611.5
67.5°	403.6	437.1	504.0	548.8	559.9
70°	342.0	379.9	451.0	497.1	508.2
72.5°	289.0	328.1	399.4	444.0	460.8
75°	231.8	276.4	347.7	395.2	406.3
77.5°	176.0	227.6	300.1	336.5	336.5
80°	125.7	180.2	247.1	264.0	266.7
82.5°	82.4	135.4	182.9	181.5	181.5
85°	47.4	88.0	108.8	106.2	106.2
87.5°	18.2	36.3	39.0	39.0	37.7
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)