

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: P843069

Luminaire Tested: **24CZ2-40HE-UNV-B50**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843069
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: 24CZ2-40HE-UNV-B50
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Summary

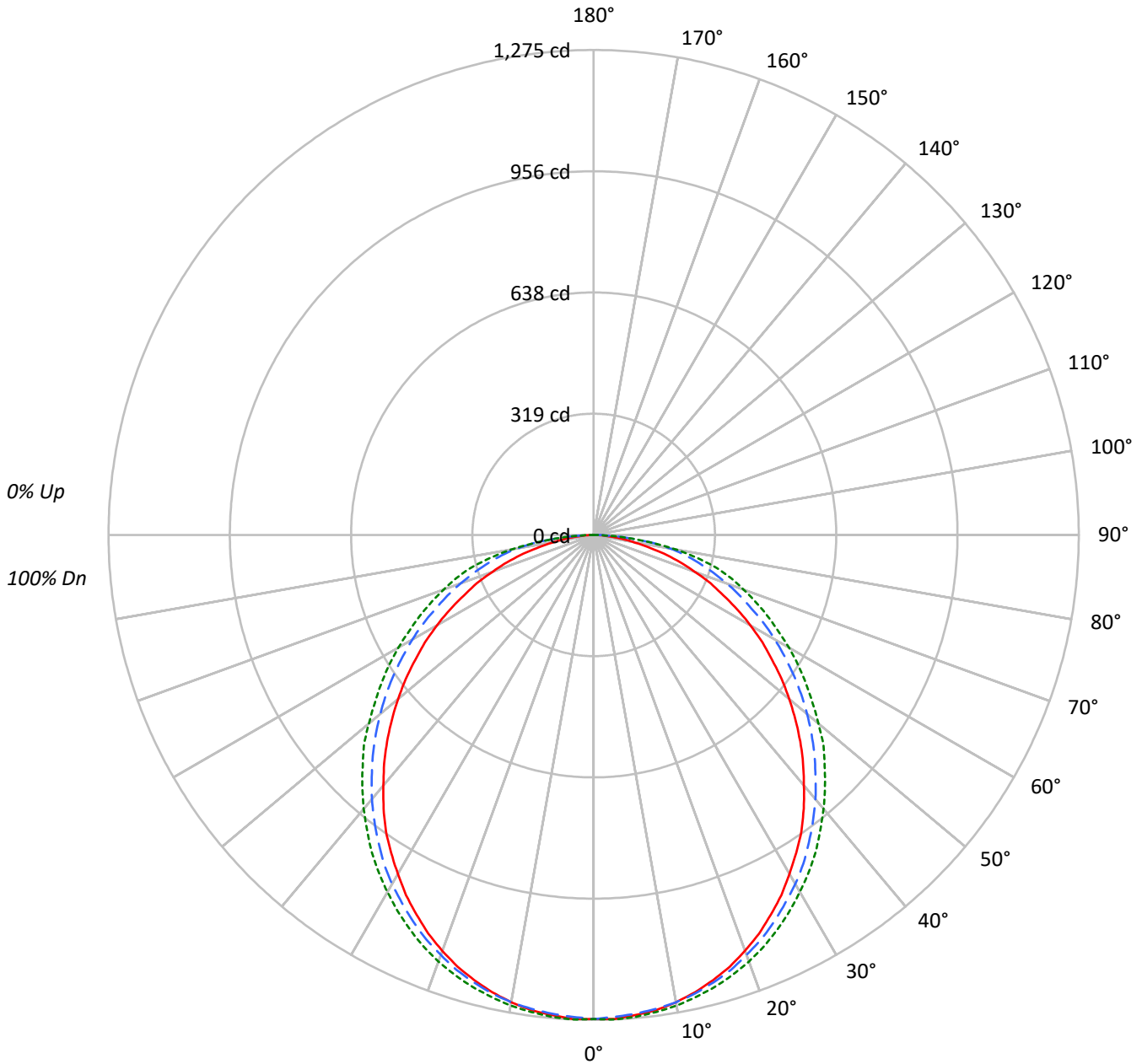
Lumens per Lamp: N/A
Luminaire Lumens: 3623.0 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 29
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				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	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°	1796	1796	1796
5°	1795	1790	1802
10°	1788	1788	1801
15°	1771	1779	1798
20°	1747	1765	1792
25°	1715	1747	1781
30°	1677	1727	1767
35°	1640	1699	1753
40°	1584	1671	1732
45°	1532	1638	1714
50°	1473	1607	1693
55°	1407	1577	1676
60°	1342	1552	1673
65°	1257	1526	1683
70°	1163	1534	1729
75°	1042	1563	1826
80°	842	1656	1786
85°	633	1453	1417



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.5	3.3
10°-20°	344.3	9.5
20°-30°	517.5	14.3
30°-40°	616.5	17.0
40°-50°	631.0	17.4
50°-60°	568.1	15.7
60°-70°	446.1	12.3
70°-80°	289.5	8.0
80°-90°	89.5	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°	982.3	27.1
0°-40°	1598.8	44.1
0°-60°	2797.8	77.2
0°-90°	3623.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3623.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1273	1273	1273	1273	1273	
5°	1267	1269	1264	1270	1272	120
15°	1212	1215	1218	1228	1230	342
25°	1101	1110	1122	1140	1144	507
35°	952	963	986	1010	1017	594
45°	768	786	821	852	858	592
55°	572	597	641	674	681	513
65°	376	405	457	495	504	375
75°	191	228	287	326	335	202
85°	39	72	90	88	88	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1272.8	1272.8	1272.8	1272.8	1272.8
2.5°	1274.0	1274.0	1268.1	1274.0	1275.1
5°	1267.0	1269.4	1263.6	1270.5	1271.6
7.5°	1260.1	1260.1	1256.6	1263.6	1264.8
10°	1247.5	1248.6	1247.5	1255.5	1256.6
12.5°	1231.4	1233.6	1234.9	1242.9	1244.0
15°	1211.8	1215.3	1217.5	1227.9	1230.3
17.5°	1189.9	1193.4	1199.1	1210.6	1212.9
20°	1163.4	1168.0	1175.0	1189.9	1193.4
22.5°	1134.7	1139.3	1150.8	1164.6	1170.4
25°	1101.3	1110.5	1122.0	1140.4	1143.9
27.5°	1067.9	1076.0	1090.9	1110.5	1115.2
30°	1028.8	1041.4	1059.9	1079.4	1084.0
32.5°	990.8	1003.4	1025.3	1046.1	1051.8
35°	951.7	963.2	986.2	1010.4	1017.3
37.5°	906.8	921.8	947.1	971.3	978.2
40°	859.7	878.1	906.8	932.2	940.2
42.5°	814.7	834.3	863.1	890.7	899.9
45°	767.6	786.0	820.6	851.6	858.5
47.5°	719.2	740.0	776.7	807.8	819.3
50°	670.9	692.9	732.0	764.1	771.1
52.5°	622.6	645.6	687.0	721.6	725.0
55°	571.9	597.3	641.0	674.4	681.3
57.5°	525.9	547.8	595.0	629.5	637.5
60°	475.3	499.4	550.0	582.3	592.6
62.5°	426.9	452.3	505.3	537.4	546.6
65°	376.3	405.1	456.9	494.9	504.0
67.5°	332.6	360.2	415.4	452.3	461.4
70°	281.9	313.1	371.7	409.7	418.9
72.5°	238.2	270.4	329.2	365.9	379.8
75°	191.1	227.8	286.6	325.7	334.8
77.5°	145.0	187.6	247.4	277.3	277.3
80°	103.6	148.5	203.7	217.5	219.8
82.5°	67.9	111.6	150.7	149.6	149.6
85°	39.1	72.5	89.7	87.5	87.5
87.5°	15.0	29.9	32.2	32.2	31.1
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)