

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: P843117

Luminaire Tested: **24CZ2-50HE-HRP-UNV-B50**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843117
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P295011)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-50HE-HRP-UNV-B50
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Summary

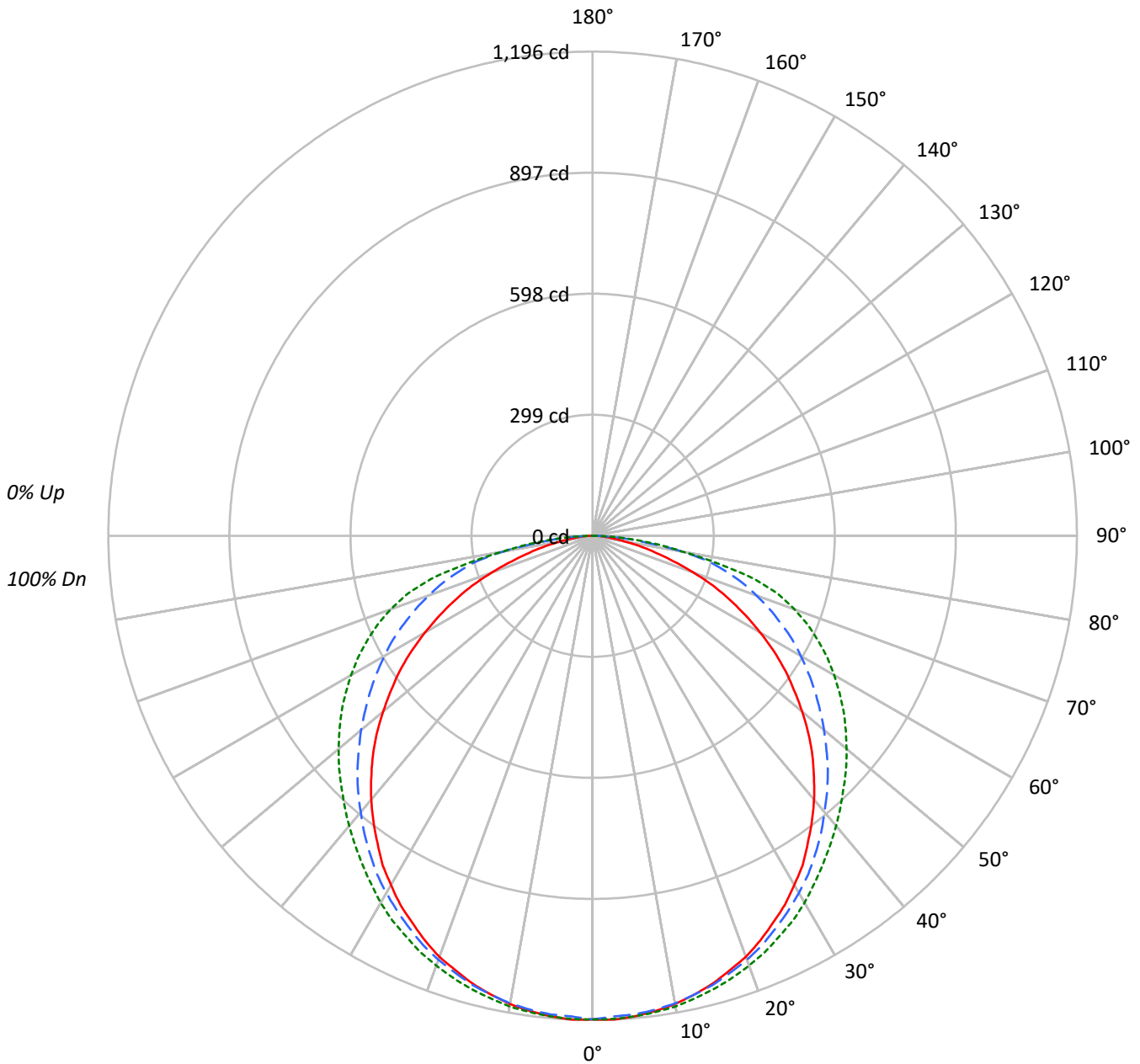
Lumens per Lamp: N/A
Luminaire Lumens: 3682.0 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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

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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	101	96	93	96	93	90	92	90	87	89	86	84	82																			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56																			
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	50	48																			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	49	42	38	36																			
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28																			
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25																			
10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1686	1686	1686
5°	1688	1682	1688
10°	1683	1681	1692
15°	1673	1678	1694
20°	1662	1674	1697
25°	1642	1666	1700
30°	1623	1660	1706
35°	1596	1652	1708
40°	1567	1642	1724
45°	1532	1640	1751
50°	1483	1638	1797
55°	1430	1650	1862
60°	1349	1675	1945
65°	1246	1715	2054
70°	1088	1775	2188
75°	882	1866	2261
80°	651	1830	1830
85°	500	1349	1522



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.2	3.1
10°-20°	325.0	8.8
20°-30°	494.7	13.4
30°-40°	600.7	16.3
40°-50°	634.7	17.2
50°-60°	598.8	16.3
60°-70°	497.9	13.5
70°-80°	327.6	8.9
80°-90°	89.3	2.4
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°	932.9	25.3
0°-40°	1533.6	41.7
0°-60°	2767.1	75.2
0°-90°	3682.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3682.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1195	1195	1195	1195	1195	
5°	1192	1192	1187	1192	1192	113
15°	1145	1147	1148	1159	1159	323
25°	1054	1060	1070	1088	1091	486
35°	926	937	959	984	991	580
45°	768	783	822	862	877	591
55°	581	606	670	734	757	518
65°	373	416	513	589	615	369
75°	162	236	342	406	415	174
85°	31	68	83	92	94	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1194.7	1194.7	1194.7	1194.7	1194.7
2.5°	1196.2	1194.7	1188.4	1194.7	1194.7
5°	1191.6	1191.6	1186.9	1191.6	1191.6
7.5°	1183.8	1183.8	1180.8	1186.9	1186.9
10°	1174.7	1174.7	1172.9	1180.8	1180.8
12.5°	1160.7	1162.3	1160.7	1169.9	1169.9
15°	1145.3	1146.8	1148.4	1159.2	1159.2
17.5°	1125.3	1128.3	1131.4	1143.8	1145.3
20°	1106.8	1108.3	1114.4	1128.3	1129.9
22.5°	1082.0	1086.8	1094.4	1108.3	1112.9
25°	1054.4	1060.5	1069.8	1088.3	1091.4
27.5°	1028.1	1032.8	1045.0	1065.0	1071.3
30°	995.8	1003.5	1018.9	1038.9	1046.6
32.5°	965.0	972.6	991.1	1012.8	1018.9
35°	926.5	937.1	958.9	983.5	991.1
37.5°	889.5	900.2	926.5	954.1	963.4
40°	850.8	863.2	891.0	923.4	935.6
42.5°	809.2	826.2	857.1	892.5	906.4
45°	767.7	783.1	821.6	861.6	877.1
47.5°	722.9	741.4	783.1	830.8	849.3
50°	675.2	698.3	746.1	798.5	818.6
52.5°	627.4	653.5	707.4	766.1	787.7
55°	581.0	605.8	670.4	733.7	756.8
57.5°	530.3	561.0	631.9	699.8	722.9
60°	477.9	511.8	593.4	664.3	688.9
62.5°	425.5	464.0	556.4	627.4	653.5
65°	373.1	416.1	513.4	588.9	615.0
67.5°	322.2	370.0	473.1	548.8	574.9
70°	263.6	323.7	430.1	504.0	530.3
72.5°	209.7	279.1	388.5	457.9	481.0
75°	161.8	235.8	342.2	405.5	414.6
77.5°	118.8	192.7	294.3	316.1	317.6
80°	80.1	154.2	225.1	221.9	225.1
82.5°	52.4	115.5	141.8	158.8	160.3
85°	30.9	67.9	83.3	92.5	94.0
87.5°	15.4	23.1	29.4	30.9	33.9
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)