

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: P843165

Luminaire Tested: **24CZ2-65HE-RDP-UNV-B50**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843165
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P274775)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-65HE-RDP-UNV-B50
Description: 2X4 6500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Summary

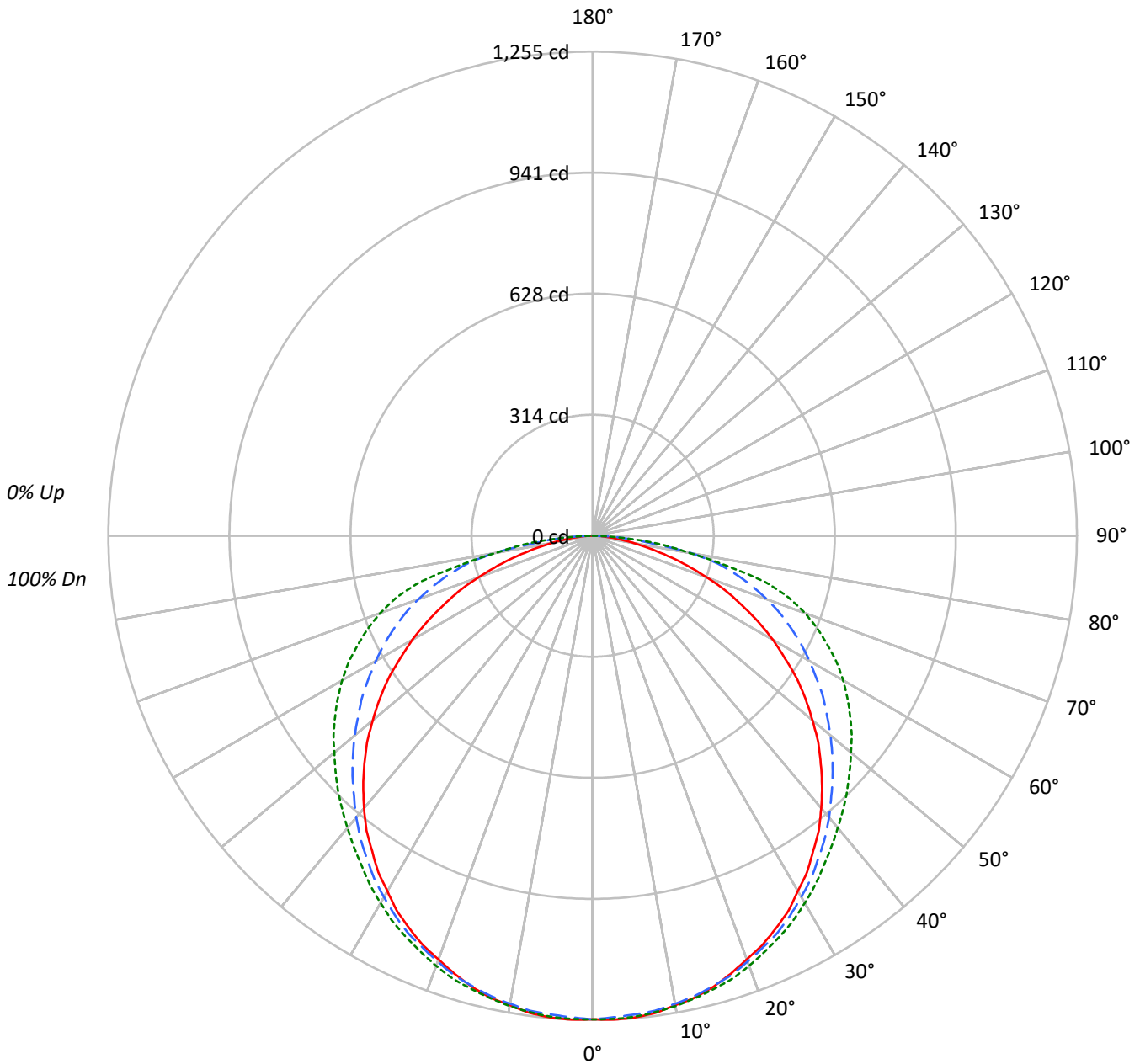
Lumens per Lamp: N/A
Luminaire Lumens: 3986.0 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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	100	96	92	96	93	89	92	89	87	88	86	84	82																			
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67																			
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56																			
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47																			
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40																			
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35																			
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27																			
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24																			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1769	1769	1769
5°	1776	1765	1773
10°	1771	1765	1774
15°	1768	1765	1776
20°	1755	1764	1782
25°	1749	1767	1786
30°	1733	1762	1792
35°	1717	1758	1799
40°	1698	1756	1821
45°	1669	1756	1862
50°	1632	1767	1919
55°	1591	1795	2004
60°	1523	1830	2115
65°	1426	1895	2245
70°	1297	1982	2415
75°	1100	2092	2523
80°	868	2104	2040
85°	641	1602	1791



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.9	3.0
10°-20°	342.2	8.6
20°-30°	523.3	13.1
30°-40°	639.7	16.0
40°-50°	681.8	17.1
50°-60°	651.9	16.4
60°-70°	552.2	13.9
70°-80°	371.2	9.3
80°-90°	104.7	2.6
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°	984.4	24.7
0°-40°	1624.2	40.7
0°-60°	2957.9	74.2
0°-90°	3986.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3986.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1254	1254	1254	1254	1254	
5°	1254	1252	1246	1252	1252	119
15°	1210	1210	1208	1218	1216	341
25°	1123	1127	1135	1145	1147	518
35°	996	1004	1020	1040	1044	624
45°	836	850	880	917	933	645
55°	646	670	730	787	815	576
65°	427	471	567	642	672	424
75°	202	275	384	449	463	216
85°	40	81	99	107	111	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1253.5	1253.5	1253.5	1253.5	1253.5
2.5°	1255.4	1255.4	1249.4	1253.5	1253.5
5°	1253.5	1251.6	1245.6	1251.6	1251.6
7.5°	1247.5	1245.6	1241.6	1247.5	1245.6
10°	1235.6	1235.6	1231.8	1237.8	1237.8
12.5°	1225.8	1223.9	1221.8	1229.7	1227.7
15°	1210.1	1210.1	1208.0	1218.0	1215.8
17.5°	1190.3	1192.2	1194.1	1202.0	1204.1
20°	1168.4	1172.4	1174.3	1186.3	1186.3
22.5°	1148.6	1150.7	1154.6	1166.5	1166.5
25°	1123.1	1126.9	1134.8	1144.8	1146.7
27.5°	1097.3	1099.3	1109.3	1123.1	1125.0
30°	1063.7	1069.7	1081.4	1097.3	1099.3
32.5°	1033.9	1039.9	1053.7	1069.7	1073.5
35°	996.5	1004.4	1020.1	1039.9	1043.9
37.5°	962.9	968.8	988.6	1010.3	1016.3
40°	921.4	933.1	952.9	978.6	988.6
42.5°	879.9	891.6	915.4	949.1	961.0
45°	836.3	850.1	879.9	917.4	933.1
47.5°	792.9	808.6	842.3	885.6	903.5
50°	743.3	763.1	804.6	854.2	874.0
52.5°	695.9	719.7	765.3	820.6	846.3
55°	646.5	670.1	729.5	787.0	814.6
57.5°	591.2	622.7	688.0	753.3	782.9
60°	539.7	569.3	648.4	719.7	749.3
62.5°	484.4	524.0	608.9	684.0	713.8
65°	427.0	470.6	567.4	642.5	672.3
67.5°	375.7	423.2	525.9	601.0	630.8
70°	314.4	373.6	480.4	555.5	585.3
72.5°	257.0	322.3	432.9	506.1	533.8
75°	201.7	274.9	383.6	448.9	462.7
77.5°	150.2	227.4	332.1	359.7	350.0
80°	106.8	181.9	258.9	245.1	251.0
82.5°	69.1	138.5	160.2	181.9	187.9
85°	39.6	81.1	98.9	106.8	110.6
87.5°	17.9	29.6	39.6	39.6	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)