

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: P843163

Luminaire Tested: **24CZ2-65HE-RDP-UNV-B35**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P843163  
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-B35  
Description: 2X4 6500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RDP LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

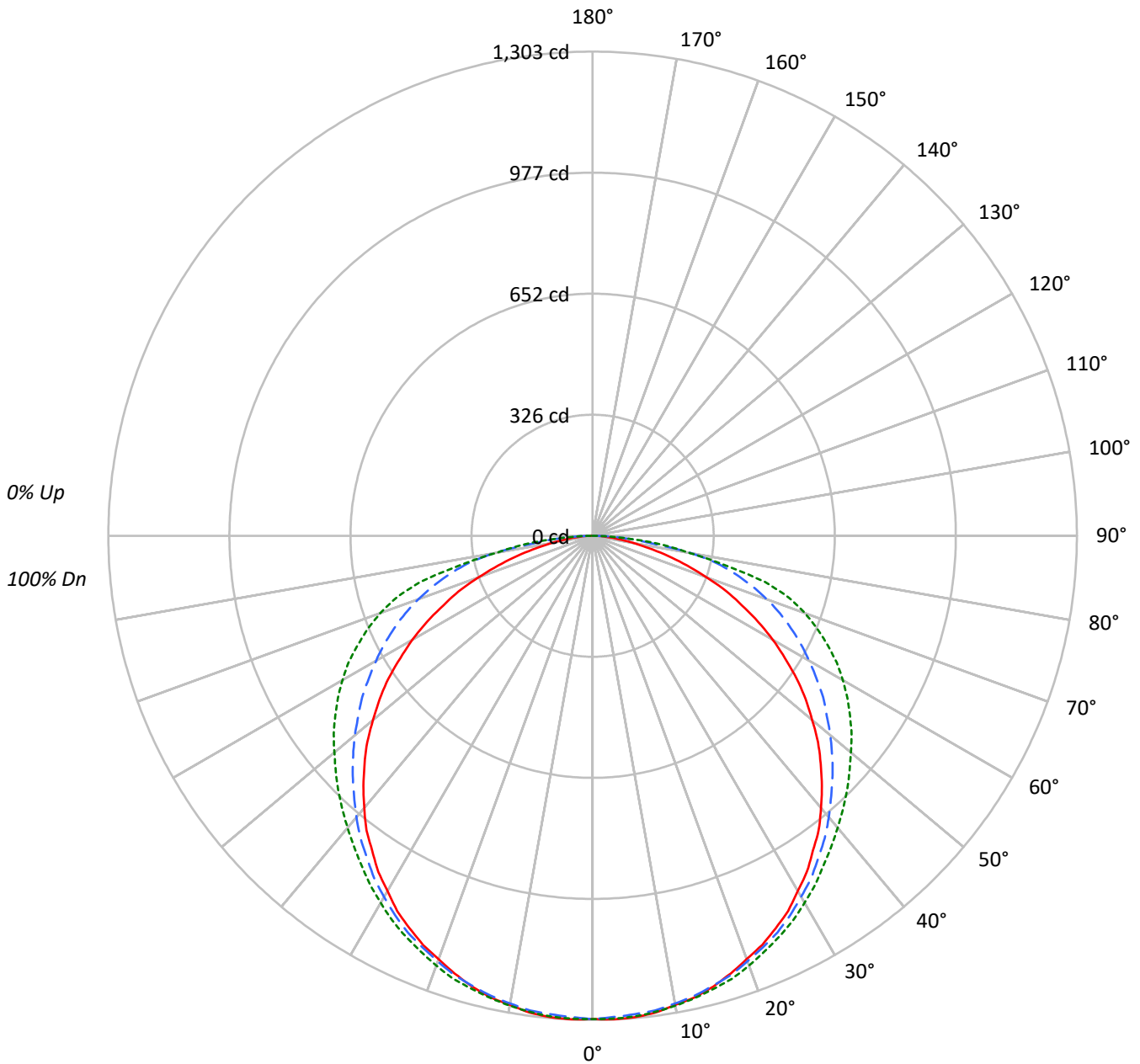
Lumens per Lamp: N/A  
Luminaire Lumens: 4136.0 lumens  
Efficiency: N/A  
Efficacy: 82.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 50  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	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°	1836	1836	1836
5°	1843	1831	1840
10°	1837	1832	1841
15°	1835	1831	1843
20°	1821	1830	1849
25°	1815	1834	1853
30°	1799	1829	1859
35°	1782	1824	1866
40°	1761	1822	1890
45°	1732	1822	1932
50°	1694	1833	1991
55°	1651	1862	2080
60°	1581	1899	2195
65°	1479	1966	2330
70°	1346	2057	2506
75°	1141	2170	2618
80°	901	2183	2117
85°	666	1663	1859



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.4	3.0
10°-20°	355.1	8.6
20°-30°	543.0	13.1
30°-40°	663.8	16.0
40°-50°	707.5	17.1
50°-60°	676.5	16.4
60°-70°	573.0	13.9
70°-80°	385.1	9.3
80°-90°	108.7	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°	1021.5	24.7
0°-40°	1685.3	40.7
0°-60°	3069.2	74.2
0°-90°	4136.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4136.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1301	1301	1301	1301	1301	
5°	1301	1299	1292	1299	1299	124
15°	1256	1256	1253	1264	1262	354
25°	1165	1169	1178	1188	1190	537
35°	1034	1042	1058	1079	1083	648
45°	868	882	913	952	968	669
55°	671	695	757	817	845	598
65°	443	488	589	667	698	440
75°	209	285	398	466	480	224
85°	41	84	103	111	115	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1300.7	1300.7	1300.7	1300.7	1300.7
2.5°	1302.6	1302.6	1296.5	1300.7	1300.7
5°	1300.7	1298.7	1292.5	1298.7	1298.7
7.5°	1294.5	1292.5	1288.3	1294.5	1292.5
10°	1282.1	1282.1	1278.2	1284.3	1284.3
12.5°	1272.0	1270.0	1267.8	1275.9	1274.0
15°	1255.6	1255.6	1253.4	1263.8	1261.6
17.5°	1235.1	1237.1	1239.1	1247.2	1249.5
20°	1212.4	1216.6	1218.5	1230.9	1230.9
22.5°	1191.8	1194.1	1198.0	1210.4	1210.4
25°	1165.4	1169.3	1177.5	1187.9	1189.8
27.5°	1138.6	1140.6	1151.0	1165.4	1167.3
30°	1103.8	1109.9	1122.1	1138.6	1140.6
32.5°	1072.8	1079.0	1093.4	1109.9	1113.9
35°	1034.0	1042.2	1058.5	1079.0	1083.2
37.5°	999.1	1005.3	1025.8	1048.3	1054.5
40°	956.1	968.2	988.7	1015.4	1025.8
42.5°	913.0	925.2	949.9	984.8	997.1
45°	867.8	882.1	913.0	951.9	968.2
47.5°	822.7	839.1	874.0	919.0	937.5
50°	771.3	791.8	834.9	886.3	906.9
52.5°	722.1	746.8	794.1	851.4	878.2
55°	670.9	695.4	756.9	816.6	845.3
57.5°	613.5	646.1	713.9	781.7	812.4
60°	560.0	590.7	672.8	746.8	777.5
62.5°	502.7	543.7	631.8	709.7	740.6
65°	443.0	488.3	588.7	666.7	697.6
67.5°	389.9	439.1	545.7	623.6	654.5
70°	326.3	387.6	498.4	576.4	607.3
72.5°	266.7	334.4	449.2	525.2	553.9
75°	209.3	285.2	398.0	465.8	480.1
77.5°	155.8	236.0	344.6	373.3	363.1
80°	110.8	188.7	268.6	254.3	260.5
82.5°	71.7	143.7	166.2	188.7	194.9
85°	41.1	84.1	102.7	110.8	114.8
87.5°	18.6	30.7	41.1	41.1	39.1
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)