

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: P881261

Luminaire Tested: **24CZ2-65VHE-RDP-UNV-B40**

Issue Date: 10/2/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P881261  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474311)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 10/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-65VHE-RDP-UNV-B40  
Description: 2X4 6500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RDP LENS  
  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

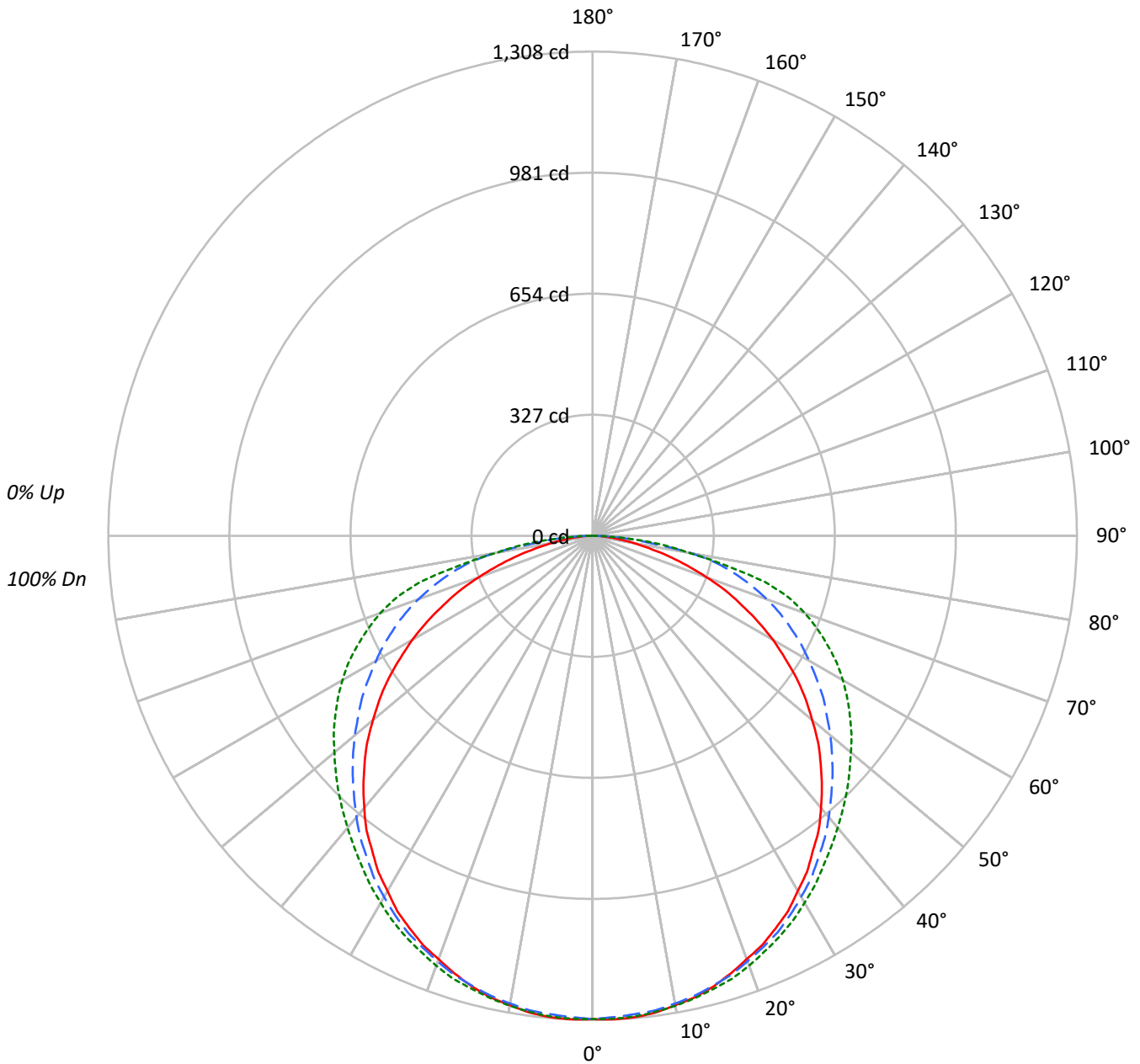
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4152.0 lumens  
Efficiency: N/A  
Efficacy: 81.4 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): 51  
Input Voltage (V): NR  
Input Current (Ain): 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°	1843	1843	1843
5°	1850	1838	1847
10°	1845	1839	1848
15°	1841	1839	1851
20°	1828	1837	1856
25°	1822	1841	1860
30°	1806	1836	1866
35°	1788	1831	1874
40°	1768	1829	1897
45°	1739	1829	1940
50°	1700	1840	1999
55°	1657	1870	2088
60°	1587	1907	2203
65°	1485	1974	2338
70°	1351	2065	2515
75°	1145	2179	2628
80°	904	2192	2125
85°	667	1668	1869



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.9	3.0
10°-20°	356.5	8.6
20°-30°	545.1	13.1
30°-40°	666.3	16.0
40°-50°	710.2	17.1
50°-60°	679.1	16.4
60°-70°	575.2	13.9
70°-80°	386.6	9.3
80°-90°	109.1	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°	1025.4	24.7
0°-40°	1691.8	40.7
0°-60°	3081.1	74.2
0°-90°	4152.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4152.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1306	1306	1306	1306	1306	
5°	1306	1304	1298	1304	1304	124
15°	1260	1260	1258	1269	1266	355
25°	1170	1174	1182	1192	1195	539
35°	1038	1046	1063	1083	1087	650
45°	871	886	916	956	972	672
55°	673	698	760	820	848	600
65°	445	490	591	669	700	442
75°	210	286	400	468	482	225
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°	1305.8	1305.8	1305.8	1305.8	1305.8
2.5°	1307.8	1307.8	1301.5	1305.8	1305.8
5°	1305.8	1303.7	1297.5	1303.7	1303.7
7.5°	1299.5	1297.5	1293.3	1299.5	1297.5
10°	1287.3	1287.3	1283.0	1289.3	1289.3
12.5°	1276.8	1274.8	1272.8	1281.0	1279.0
15°	1260.3	1260.3	1258.3	1268.6	1266.5
17.5°	1239.8	1241.8	1244.0	1252.3	1254.3
20°	1217.1	1221.3	1223.3	1235.8	1235.8
22.5°	1196.6	1198.6	1202.8	1215.1	1215.1
25°	1169.8	1173.8	1182.1	1192.3	1194.6
27.5°	1142.9	1145.1	1155.3	1169.8	1171.8
30°	1107.9	1114.1	1126.6	1142.9	1145.1
32.5°	1077.1	1083.1	1097.6	1114.1	1118.3
35°	1037.9	1046.1	1062.6	1083.1	1087.4
37.5°	1002.9	1008.9	1029.6	1052.4	1058.4
40°	959.9	971.9	992.6	1019.4	1029.6
42.5°	916.4	928.9	953.6	988.4	1000.7
45°	871.2	885.7	916.4	955.6	971.9
47.5°	825.9	842.4	877.4	922.7	941.2
50°	774.2	795.0	838.2	889.7	910.4
52.5°	725.0	749.7	797.0	854.7	881.4
55°	673.3	698.0	760.0	819.7	848.5
57.5°	615.8	648.6	716.7	784.7	815.5
60°	562.3	593.1	675.5	749.7	780.5
62.5°	504.6	545.8	634.3	712.5	743.5
65°	444.8	490.3	591.0	669.3	700.2
67.5°	391.3	440.8	547.8	626.0	656.8
70°	327.4	389.1	500.5	578.6	609.5
72.5°	267.7	335.6	451.1	527.3	556.0
75°	210.0	286.2	399.6	467.6	482.0
77.5°	156.7	236.7	345.9	374.9	364.6
80°	111.2	189.6	269.7	255.2	261.4
82.5°	72.2	144.2	166.9	189.6	195.5
85°	41.2	84.5	103.0	111.2	115.4
87.5°	18.5	31.0	41.2	41.2	39.2
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)