

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: P843168

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P843168  
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: 24CZ2-65HE-S-UNV-B50  
Description: 2X4 6500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SMOOTH LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

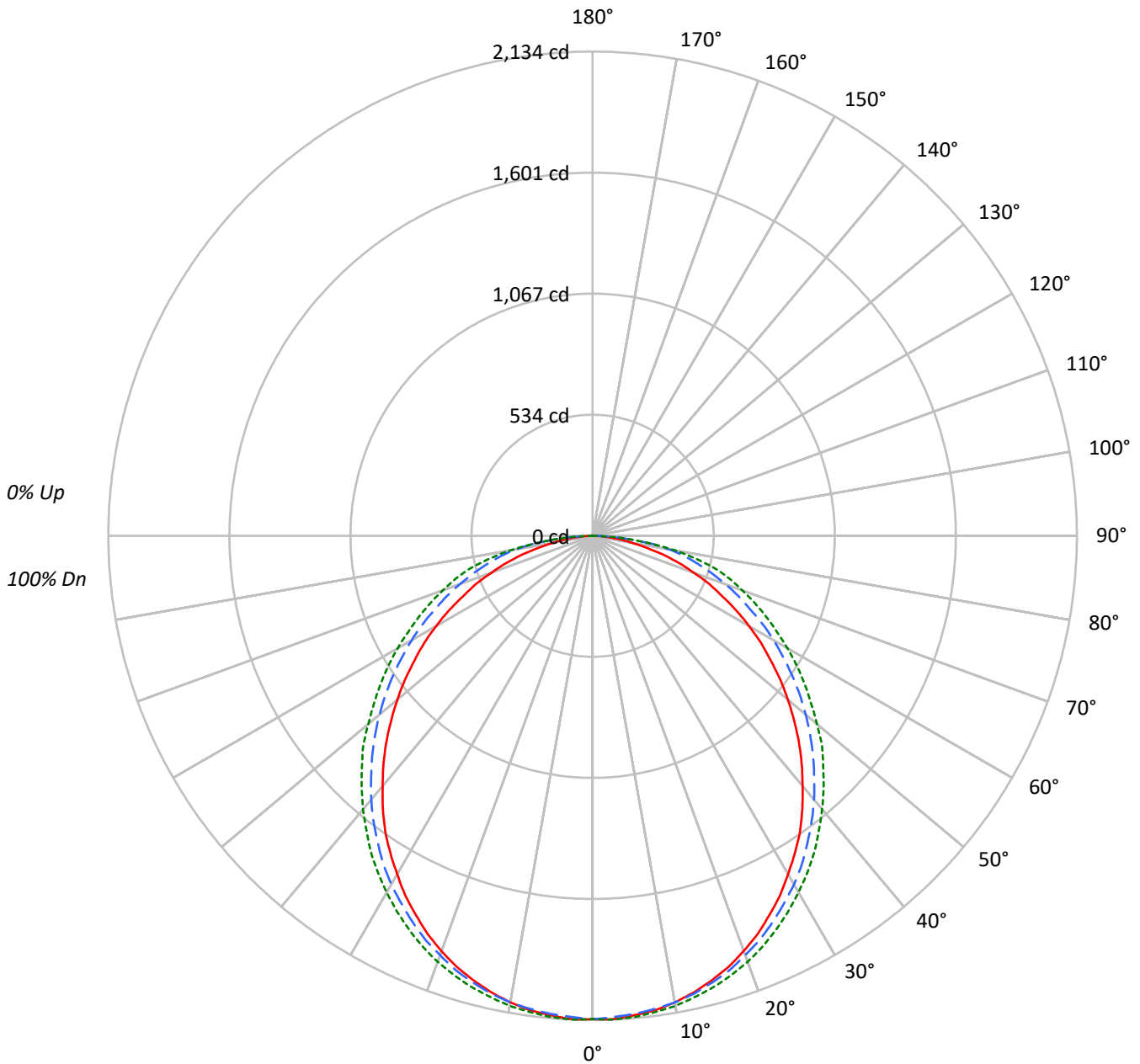
Lumens per Lamp: N/A  
Luminaire Lumens: 6065.0 lumens  
Efficiency: N/A  
Efficacy: 121.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	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°	3007	3007	3007
5°	3005	2997	3016
10°	2993	2993	3015
15°	2964	2978	3009
20°	2925	2954	3001
25°	2871	2925	2982
30°	2807	2892	2957
35°	2745	2845	2934
40°	2651	2797	2900
45°	2565	2742	2869
50°	2466	2690	2834
55°	2356	2640	2807
60°	2246	2599	2800
65°	2104	2554	2818
70°	1947	2568	2893
75°	1744	2616	3056
80°	1409	2772	2990
85°	1061	2432	2372



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	201.7	3.3
10°-20°	576.4	9.5
20°-30°	866.4	14.3
30°-40°	1032.0	17.0
40°-50°	1056.2	17.4
50°-60°	950.9	15.7
60°-70°	746.8	12.3
70°-80°	484.7	8.0
80°-90°	149.9	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°	1644.5	27.1
0°-40°	2676.5	44.1
0°-60°	4683.7	77.2
0°-90°	6065.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6065.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2131	2131	2131	2131	2131	
5°	2121	2125	2115	2127	2129	202
15°	2029	2034	2038	2056	2060	572
25°	1844	1859	1878	1909	1915	849
35°	1593	1612	1651	1691	1703	994
45°	1285	1316	1374	1426	1437	991
55°	958	1000	1073	1129	1141	858
65°	630	678	765	828	844	627
75°	320	381	480	545	560	338
85°	66	121	150	146	146	79
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2130.8	2130.8	2130.8	2130.8	<i>2130.8</i>
2.5°	<i>2132.6</i>	<i>2132.6</i>	<i>2122.9</i>	<i>2132.6</i>	<i>2134.5</i>
5°	2121.0	2125.0	2115.2	2126.8	<i>2128.7</i>
7.5°	2109.4	2109.4	2103.6	2115.2	<i>2117.3</i>
10°	2088.3	2090.2	2088.3	2101.8	<i>2103.6</i>
12.5°	2061.4	2065.1	2067.2	2080.6	<i>2082.5</i>
15°	2028.6	2034.4	2038.2	2055.6	<i>2059.5</i>
17.5°	1992.0	1997.8	2007.3	2026.6	<i>2030.5</i>
20°	1947.6	1955.3	1966.9	1992.0	<i>1997.8</i>
22.5°	1899.6	1907.3	1926.5	1949.5	<i>1959.2</i>
25°	1843.7	1859.0	1878.2	1909.1	<i>1914.9</i>
27.5°	1787.7	1801.2	1826.2	1859.0	<i>1866.9</i>
30°	1722.3	1743.4	1774.3	1807.0	<i>1814.6</i>
32.5°	1658.7	1679.8	1716.5	1751.3	<i>1760.8</i>
35°	1593.2	1612.5	1651.0	1691.4	<i>1703.0</i>
37.5°	1518.0	1543.1	1585.5	1625.9	<i>1637.5</i>
40°	1439.1	1470.0	1518.0	1560.5	<i>1573.9</i>
42.5°	1363.9	1396.6	1444.9	1491.1	<i>1506.4</i>
45°	1285.0	1315.8	1373.6	1425.6	<i>1437.2</i>
47.5°	1204.0	1238.8	1300.3	1352.3	<i>1371.5</i>
50°	1123.2	1159.9	1225.3	1279.2	<i>1290.8</i>
52.5°	1042.2	1080.7	1150.1	1207.9	<i>1213.7</i>
55°	957.5	999.9	1073.0	1129.0	<i>1140.6</i>
57.5°	880.4	917.1	996.0	1053.8	<i>1067.2</i>
60°	795.7	836.1	920.8	974.9	<i>992.0</i>
62.5°	714.7	757.1	845.8	899.7	<i>915.0</i>
65°	629.9	678.2	764.8	828.4	<i>843.7</i>
67.5°	556.8	603.0	695.4	757.1	<i>772.5</i>
70°	471.9	524.1	622.3	685.9	<i>701.2</i>
72.5°	398.8	452.6	551.0	612.5	<i>635.8</i>
75°	319.8	381.4	479.8	545.2	<i>560.5</i>
77.5°	242.8	314.0	414.1	464.2	<i>464.2</i>
80°	173.4	248.6	341.0	364.2	<i>367.9</i>
82.5°	113.7	186.8	252.3	250.4	<i>250.4</i>
85°	65.5	121.4	150.2	146.5	<i>146.5</i>
87.5°	25.1	50.1	53.8	53.8	<i>52.0</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)