

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: P260755

Luminaire Tested: **24CZ-LD5-55-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260755  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ-LD5-55-UNV-L82765-W2A1-U-6500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5801.0 lumens  
Efficiency: N/A  
Efficacy: 138.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

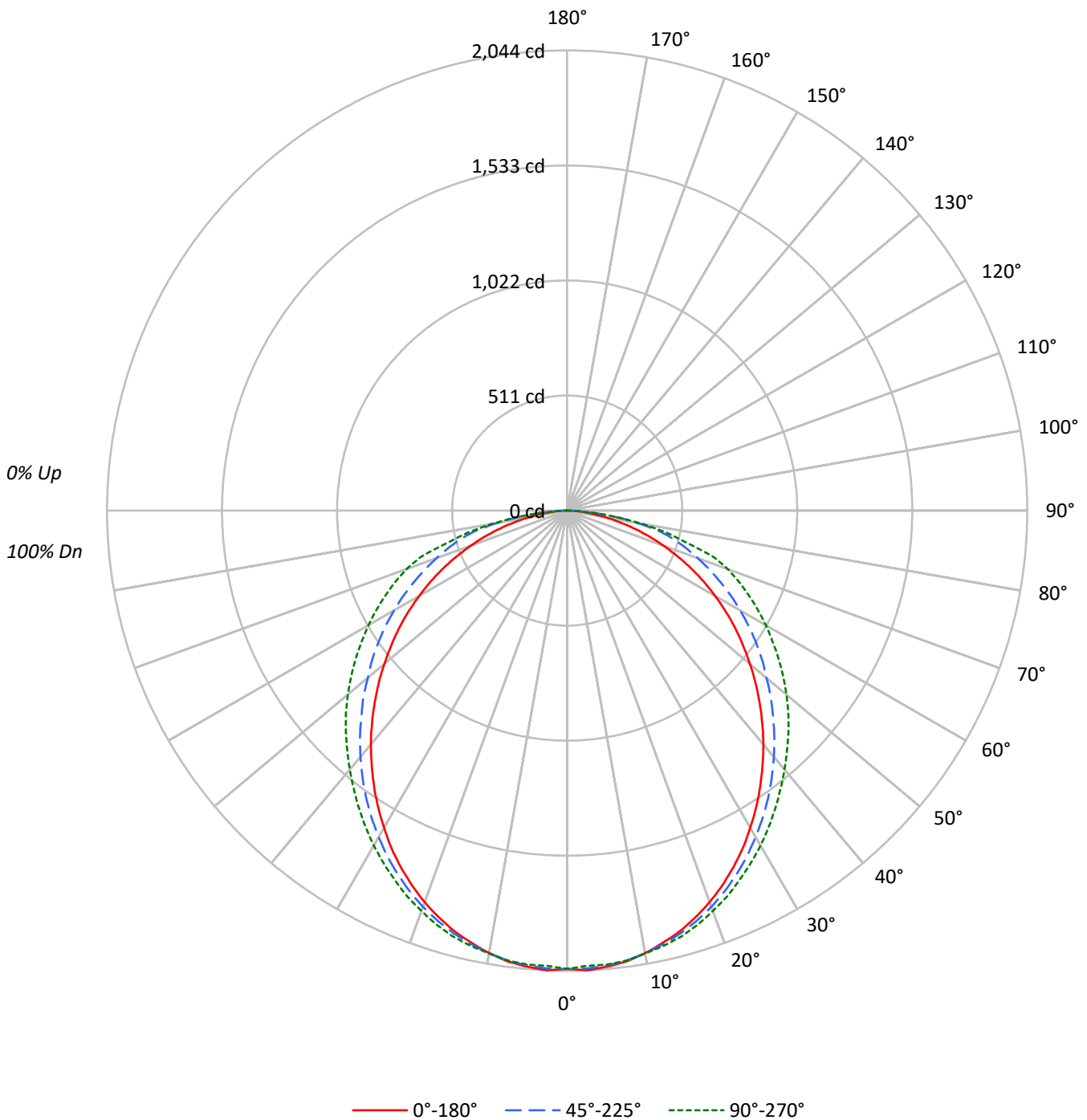
Input Watts (W): 41.85  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P260755

CATALOG NUMBER: 24CZ-LD5-55-UNV-L82765-W2A1-U-6500K

### Luminous Intensity Polar Plot





TEST NUMBER: P260755

CATALOG NUMBER: 24CZ-LD5-55-UNV-L82765-W2A1-U-6500K

**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	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	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2739	2739	2739
5°	2747	2739	2734
10°	2727	2727	2730
15°	2695	2709	2728
20°	2650	2682	2710
25°	2595	2645	2689
30°	2527	2601	2669
35°	2457	2558	2649
40°	2383	2508	2637
45°	2302	2460	2645
50°	2220	2420	2661
55°	2139	2404	2688
60°	2042	2389	2742
65°	1935	2390	2833
70°	1789	2430	2985
75°	1601	2540	2839
80°	1339	2431	2601
85°	1011	1871	1778



TEST NUMBER: P260755

CATALOG NUMBER: 24CZ-LD5-55-UNV-L82765-W2A1-U-6500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	192.4	3.3
10°-20°	547.5	9.4
20°-30°	818.5	14.1
30°-40°	971.1	16.7
40°-50°	999.5	17.2
50°-60°	916.9	15.8
60°-70°	741.3	12.8
70°-80°	481.1	8.3
80°-90°	132.7	2.3
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°	1558.5	26.9
0°-40°	2529.5	43.6
0°-60°	4445.9	76.6
0°-90°	5801.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5801.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2036	2036	2036	2036	2036	
5°	2034	2020	2028	2026	2024	193
15°	1935	1927	1944	1952	1958	545
25°	1748	1750	1782	1798	1811	805
35°	1496	1508	1557	1591	1613	935
45°	1210	1230	1293	1355	1390	933
55°	912	940	1025	1108	1146	814
65°	608	644	751	850	890	601
75°	308	366	489	546	546	327
85°	66	111	121	117	115	80
90°	0	0	0	0	0	



TEST NUMBER: P260755

CATALOG NUMBER: 24CZ-LD5-55-UNV-L82765-W2A1-U-6500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2035.8	2035.8	2035.8	2035.8	2035.8
2.5°	2043.8	2027.9	2035.8	2033.9	2023.9
5°	2033.9	2020.0	2027.9	2025.9	2023.9
7.5°	2020.0	2006.1	2016.0	2014.0	2016.0
10°	1996.1	1984.2	1996.1	1998.1	1998.1
12.5°	1966.3	1956.4	1972.3	1976.3	1980.2
15°	1934.6	1926.6	1944.5	1952.4	1958.4
17.5°	1894.8	1888.9	1910.7	1920.7	1928.6
20°	1851.1	1849.1	1873.0	1882.9	1892.8
22.5°	1801.5	1801.5	1829.3	1841.2	1855.1
25°	1747.9	1749.8	1781.6	1797.5	1811.4
27.5°	1690.3	1692.2	1730.0	1749.8	1765.7
30°	1626.7	1634.6	1674.4	1700.2	1718.1
32.5°	1563.1	1573.1	1616.8	1646.6	1666.4
35°	1495.6	1507.5	1557.2	1590.9	1612.8
37.5°	1426.1	1440.0	1493.6	1531.4	1557.2
40°	1356.6	1372.5	1428.1	1471.8	1501.6
42.5°	1283.1	1301.0	1362.5	1414.2	1445.9
45°	1209.6	1229.5	1293.0	1354.6	1390.3
47.5°	1136.1	1159.9	1227.5	1295.0	1332.7
50°	1060.6	1084.5	1156.0	1233.4	1271.2
52.5°	985.2	1013.0	1092.4	1171.9	1209.6
55°	911.7	939.5	1024.9	1108.3	1146.0
57.5°	836.2	864.0	957.3	1044.7	1082.5
60°	758.7	790.5	887.8	977.2	1018.9
62.5°	683.3	717.0	820.3	915.6	955.4
65°	607.8	643.5	750.8	850.1	889.8
67.5°	530.3	572.0	683.3	784.5	826.3
70°	454.8	500.5	617.7	719.0	758.7
72.5°	381.3	431.0	552.2	655.4	679.3
75°	307.9	365.5	488.6	546.2	546.2
77.5°	238.3	301.9	417.1	438.9	450.9
80°	172.8	242.3	313.8	339.6	335.7
82.5°	115.2	184.7	224.4	224.4	218.5
85°	65.5	111.2	121.2	117.2	115.2
87.5°	27.8	41.7	37.7	29.8	25.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)