

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: P260752

Luminaire Tested: **24CZ-LD5-55-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260752  
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-5000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5715.0 lumens  
Efficiency: N/A  
Efficacy: 139.3 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

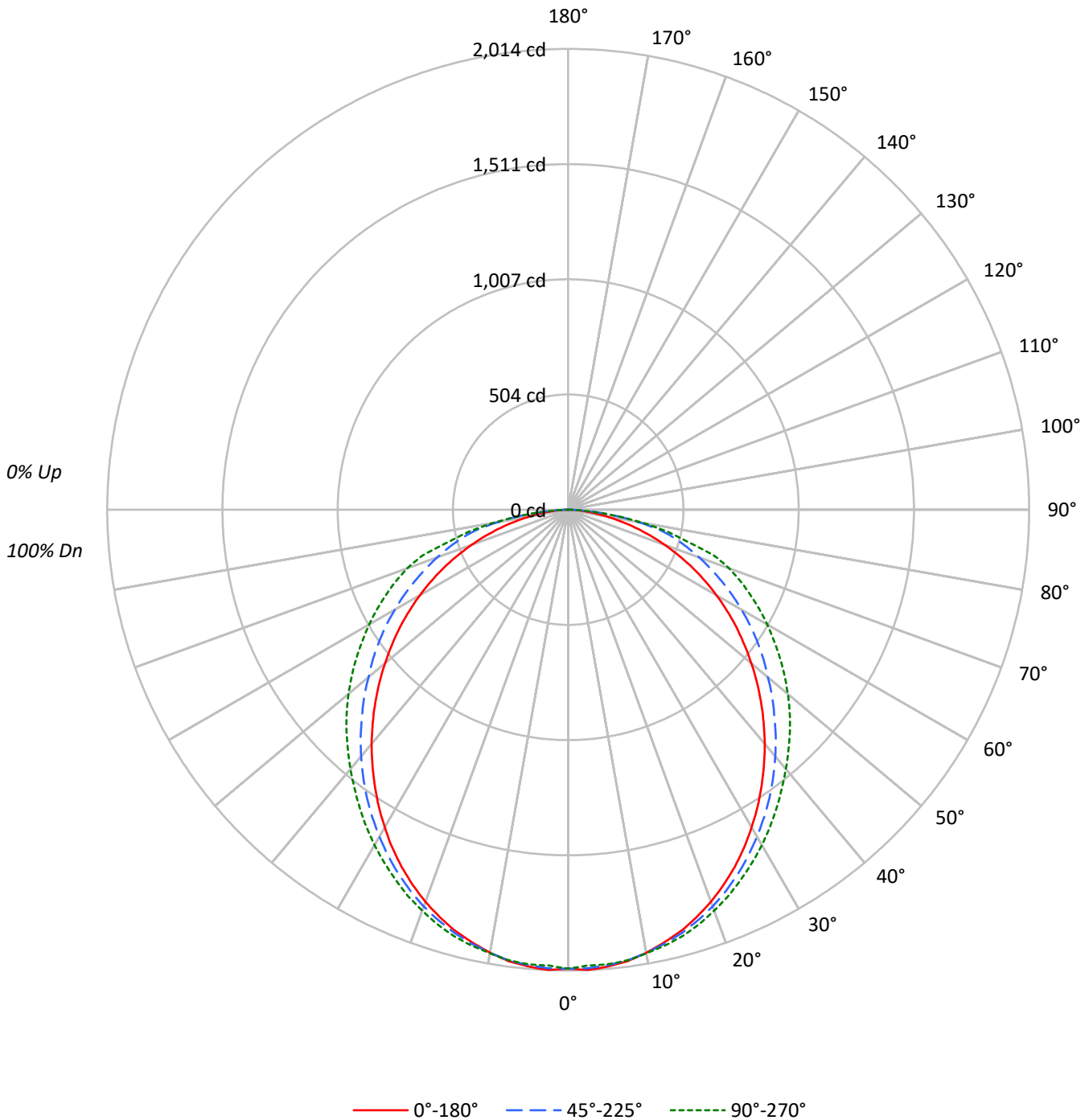
Input Watts (W): 41.013  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P260752

CATALOG NUMBER: 24CZ-LD5-55-UNV-L82765-W2A1-U-5000K

### Luminous Intensity Polar Plot





TEST NUMBER: P260752

CATALOG NUMBER: 24CZ-LD5-55-UNV-L82765-W2A1-U-5000K

**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°	2699	2699	2699
5°	2706	2698	2693
10°	2687	2687	2689
15°	2655	2668	2688
20°	2611	2642	2670
25°	2556	2606	2649
30°	2490	2563	2630
35°	2420	2520	2610
40°	2347	2471	2598
45°	2268	2424	2606
50°	2187	2384	2621
55°	2107	2369	2648
60°	2012	2354	2701
65°	1906	2355	2791
70°	1763	2394	2941
75°	1577	2503	2797
80°	1319	2396	2562
85°	997	1843	1752



TEST NUMBER: P260752

CATALOG NUMBER: 24CZ-LD5-55-UNV-L82765-W2A1-U-5000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.5	3.3
10°-20°	539.4	9.4
20°-30°	806.4	14.1
30°-40°	956.7	16.7
40°-50°	984.6	17.2
50°-60°	903.3	15.8
60°-70°	730.3	12.8
70°-80°	474.0	8.3
80°-90°	130.7	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°	1535.4	26.9
0°-40°	2492.0	43.6
0°-60°	4380.0	76.6
0°-90°	5715.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5715.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2006	2006	2006	2006	2006	
5°	2004	1990	1998	1996	1994	190
15°	1906	1898	1916	1924	1929	537
25°	1722	1724	1755	1771	1785	793
35°	1473	1485	1534	1567	1589	921
45°	1192	1211	1274	1334	1370	920
55°	898	926	1010	1092	1129	802
65°	599	634	740	838	877	592
75°	303	360	481	538	538	322
85°	65	110	119	115	114	79
90°	0	0	0	0	0	



TEST NUMBER: P260752

CATALOG NUMBER: 24CZ-LD5-55-UNV-L82765-W2A1-U-5000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2005.7	2005.7	2005.7	2005.7	2005.7
2.5°	2013.5	1997.8	2005.7	2003.7	1993.9
5°	2003.7	1990.0	1997.8	1995.9	1993.9
7.5°	1990.0	1976.3	1986.1	1984.1	1986.1
10°	1966.5	1954.8	1966.5	1968.5	1968.5
12.5°	1937.2	1927.4	1943.1	1947.0	1950.9
15°	1905.9	1898.0	1915.7	1923.5	1929.4
17.5°	1866.7	1860.9	1882.4	1892.2	1900.0
20°	1823.7	1821.7	1845.2	1855.0	1864.8
22.5°	1774.8	1774.8	1802.2	1813.9	1827.6
25°	1721.9	1723.9	1755.2	1770.9	1784.6
27.5°	1665.2	1667.2	1704.3	1723.9	1739.5
30°	1602.6	1610.4	1649.5	1675.0	1692.6
32.5°	1540.0	1549.7	1592.8	1622.1	1641.7
35°	1473.4	1485.2	1534.1	1567.4	1588.9
37.5°	1404.9	1418.6	1471.5	1508.7	1534.1
40°	1336.5	1352.1	1406.9	1450.0	1479.3
42.5°	1264.1	1281.7	1342.3	1393.2	1424.5
45°	1191.7	1211.2	1273.8	1334.5	1369.7
47.5°	1119.3	1142.7	1209.3	1275.8	1313.0
50°	1044.9	1068.4	1138.8	1215.1	1252.3
52.5°	970.5	997.9	1076.2	1154.5	1191.7
55°	898.1	925.5	1009.7	1091.9	1129.0
57.5°	823.8	851.2	943.2	1029.3	1066.4
60°	747.5	778.8	874.7	962.7	1003.8
62.5°	673.1	706.4	808.1	902.1	941.2
65°	598.8	634.0	739.7	837.5	876.6
67.5°	522.5	563.5	673.1	772.9	814.0
70°	448.1	493.1	608.5	708.3	747.5
72.5°	375.7	424.6	544.0	645.7	669.2
75°	303.3	360.0	481.4	538.1	538.1
77.5°	234.8	297.4	410.9	432.4	444.2
80°	170.2	238.7	309.2	334.6	330.7
82.5°	113.5	182.0	221.1	221.1	215.2
85°	64.6	109.6	119.4	115.4	113.5
87.5°	27.4	41.1	37.2	29.4	25.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)