

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: P261343

Luminaire Tested: **24CZ-LD5-75-S-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P261343  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ-LD5-75-S-UNV-L92765-W2A1-U-5000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH SMOOTH LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7107.0 lumens  
Efficiency: N/A  
Efficacy: 118.8 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

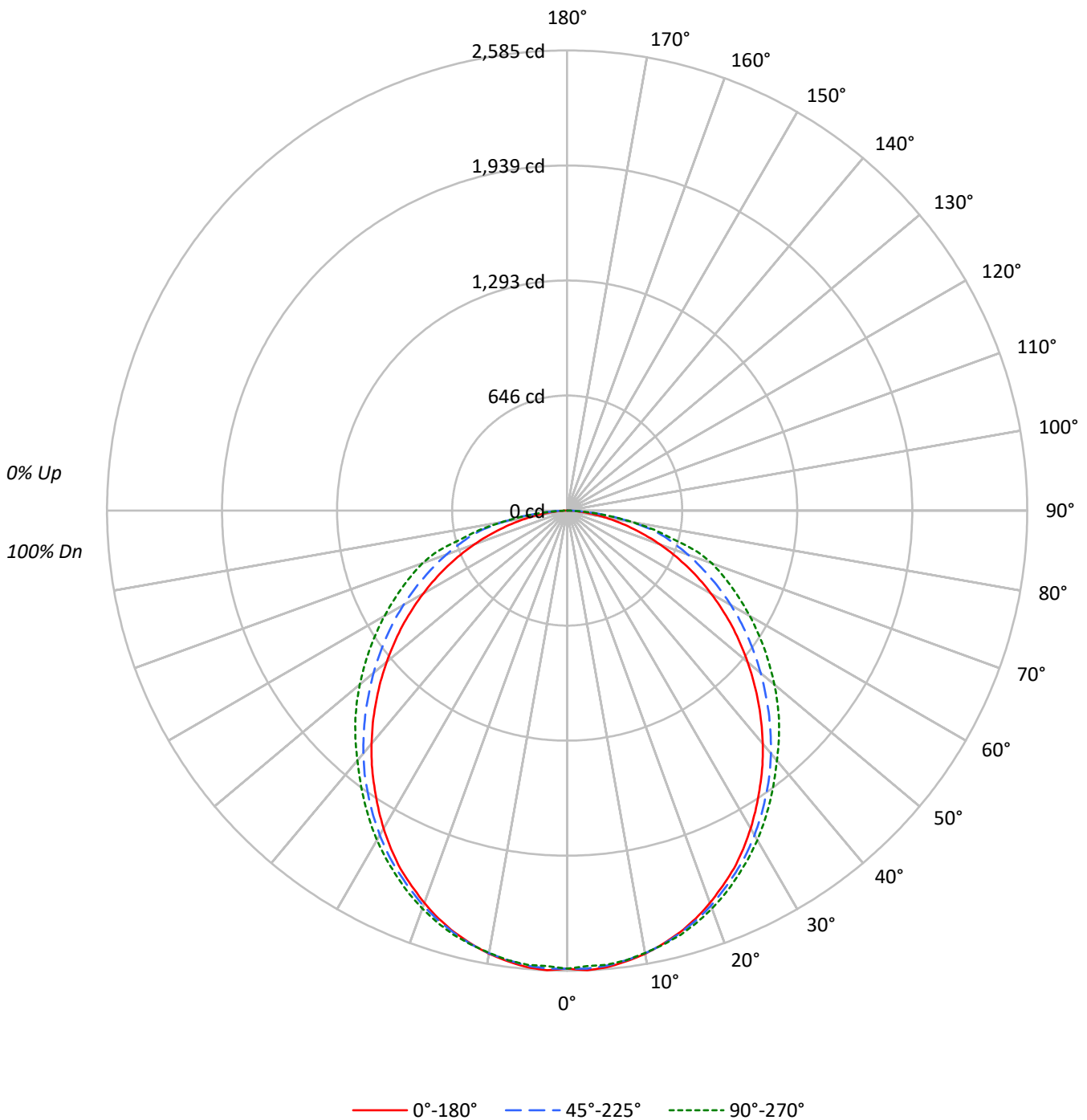
Input Watts (W): 59.799  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P261343

CATALOG NUMBER: 24CZ-LD5-75-S-UNV-L92765-W2A1-U-5000K

### Luminous Intensity Polar Plot





TEST NUMBER: P261343

CATALOG NUMBER: 24CZ-LD5-75-S-UNV-L92765-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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

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

	0°	45°	90°
0°	3462	3462	3462
5°	3478	3465	3459
10°	3454	3451	3447
15°	3416	3422	3436
20°	3359	3383	3406
25°	3293	3328	3363
30°	3204	3270	3321
35°	3103	3201	3267
40°	3003	3128	3219
45°	2889	3046	3204
50°	2772	2970	3183
55°	2652	2907	3173
60°	2514	2857	3188
65°	2364	2823	3252
70°	2177	2838	3405
75°	1930	2938	3172
80°	1612	2785	2858
85°	1204	2228	2044



TEST NUMBER: P261343

CATALOG NUMBER: 24CZ-LD5-75-S-UNV-L92765-W2A1-U-5000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	243.3	3.4
10°-20°	691.8	9.7
20°-30°	1031.0	14.5
30°-40°	1213.6	17.1
40°-50°	1233.3	17.4
50°-60°	1108.8	15.6
60°-70°	876.0	12.3
70°-80°	555.7	7.8
80°-90°	153.4	2.2
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°	1966.1	27.7
0°-40°	3179.7	44.7
0°-60°	5521.8	77.7
0°-90°	7107.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7107.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2573	2573	2573	2573	2573	
5°	2575	2554	2566	2561	2561	244
15°	2452	2440	2457	2464	2466	691
25°	2218	2216	2242	2256	2265	1020
35°	1889	1901	1949	1970	1989	1182
45°	1518	1540	1601	1648	1684	1171
55°	1130	1159	1239	1320	1353	1009
65°	742	780	887	984	1022	736
75°	371	435	565	615	610	395
85°	78	135	144	132	132	96
90°	0	0	0	0	0	



TEST NUMBER: P261343

CATALOG NUMBER: 24CZ-LD5-75-S-UNV-L92765-W2A1-U-5000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2572.9	2572.9	2572.9	2572.9	2572.9
2.5°	2584.7	2565.8	2575.2	2570.5	2561.0
5°	2575.2	2553.9	2565.8	2561.0	2561.0
7.5°	2553.9	2537.4	2546.9	2544.5	2546.9
10°	2527.9	2511.4	2525.6	2525.6	2523.2
12.5°	2492.5	2478.3	2494.8	2494.8	2497.2
15°	2452.3	2440.4	2457.0	2464.1	2466.5
17.5°	2402.6	2390.8	2412.1	2419.2	2426.2
20°	2345.8	2341.1	2362.4	2369.5	2379.0
22.5°	2282.0	2282.0	2303.3	2312.7	2326.9
25°	2218.1	2215.8	2241.8	2256.0	2265.4
27.5°	2142.5	2144.8	2177.9	2192.1	2204.0
30°	2062.1	2066.8	2104.6	2121.2	2137.7
32.5°	1976.9	1986.4	2029.0	2047.9	2064.4
35°	1889.4	1901.3	1948.6	1969.8	1988.8
37.5°	1802.0	1818.5	1868.2	1889.4	1910.7
40°	1709.7	1723.9	1780.7	1806.7	1832.7
42.5°	1615.1	1634.1	1690.8	1728.6	1759.4
45°	1518.2	1539.5	1600.9	1648.2	1683.7
47.5°	1421.2	1449.6	1508.7	1572.6	1603.3
50°	1324.3	1352.6	1418.9	1489.8	1520.5
52.5°	1224.9	1253.3	1329.0	1402.3	1435.4
55°	1130.4	1158.7	1239.1	1319.5	1352.6
57.5°	1031.0	1061.8	1151.6	1234.4	1267.5
60°	934.1	964.8	1061.8	1149.3	1184.7
62.5°	839.5	872.6	974.3	1066.5	1102.0
65°	742.5	780.4	886.8	983.7	1021.6
67.5°	647.9	690.5	801.7	903.3	943.5
70°	553.4	603.0	721.3	825.3	865.5
72.5°	461.1	515.5	640.9	744.9	766.2
75°	371.3	435.1	565.2	614.8	610.1
77.5°	286.1	357.1	480.0	489.5	503.7
80°	208.1	286.1	359.4	378.4	368.9
82.5°	137.2	215.2	257.8	248.3	245.9
85°	78.0	134.8	144.3	132.4	132.4
87.5°	33.1	54.4	47.3	35.5	33.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)