

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: P261325

Luminaire Tested: **24CZ-LD5-65-S-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P261325  
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-LD5-65-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: 6163.0 lumens  
Efficiency: N/A  
Efficacy: 123.2 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

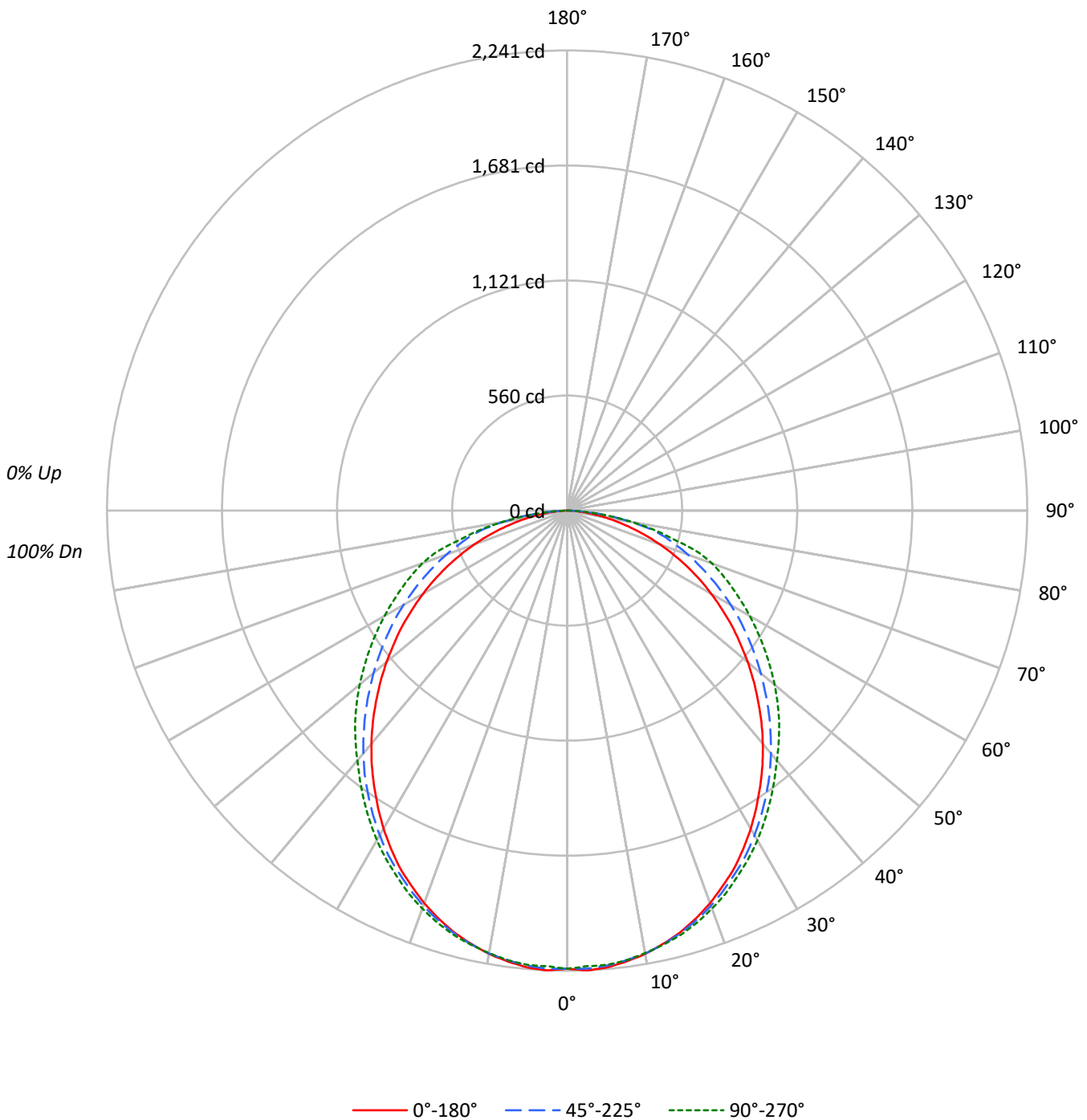
Input Watts (W): 50.034  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P261325

CATALOG NUMBER: 24CZ-LD5-65-S-UNV-L92765-W2A1-U-5000K

### Luminous Intensity Polar Plot





TEST NUMBER: P261325

CATALOG NUMBER: 24CZ-LD5-65-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°	3002	3002	3002
5°	3016	3005	3000
10°	2995	2992	2989
15°	2962	2968	2979
20°	2913	2933	2954
25°	2856	2886	2916
30°	2778	2836	2880
35°	2691	2775	2833
40°	2604	2712	2791
45°	2505	2642	2778
50°	2404	2575	2760
55°	2299	2521	2752
60°	2180	2478	2765
65°	2050	2448	2820
70°	1888	2461	2952
75°	1674	2548	2751
80°	1399	2415	2479
85°	1045	1931	1772



TEST NUMBER: P261325

CATALOG NUMBER: 24CZ-LD5-65-S-UNV-L92765-W2A1-U-5000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	210.9	3.4
10°-20°	599.9	9.7
20°-30°	894.0	14.5
30°-40°	1052.4	17.1
40°-50°	1069.5	17.4
50°-60°	961.6	15.6
60°-70°	759.7	12.3
70°-80°	481.9	7.8
80°-90°	133.0	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°	1704.9	27.7
0°-40°	2757.4	44.7
0°-60°	4788.4	77.7
0°-90°	6163.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6163.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2231	2231	2231	2231	2231	
5°	2233	2215	2225	2221	2221	212
15°	2126	2116	2131	2137	2139	599
25°	1924	1922	1944	1956	1964	884
35°	1638	1649	1690	1708	1725	1025
45°	1316	1335	1388	1429	1460	1016
55°	980	1005	1074	1144	1173	875
65°	644	677	769	853	886	638
75°	322	377	490	533	529	343
85°	68	117	125	115	115	83
90°	0	0	0	0	0	



TEST NUMBER: P261325

CATALOG NUMBER: 24CZ-LD5-65-S-UNV-L92765-W2A1-U-5000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2231.1	2231.1	2231.1	2231.1	2231.1
2.5°	2241.4	2225.0	2233.2	2229.1	2220.9
5°	2233.2	2214.7	2225.0	2220.9	2220.9
7.5°	2214.7	2200.4	2208.6	2206.5	2208.6
10°	2192.2	2177.8	2190.1	2190.1	2188.1
12.5°	2161.4	2149.1	2163.4	2163.4	2165.5
15°	2126.5	2116.3	2130.6	2136.8	2138.8
17.5°	2083.5	2073.2	2091.7	2097.8	2104.0
20°	2034.3	2030.2	2048.6	2054.8	2063.0
22.5°	1978.9	1978.9	1997.3	2005.5	2017.9
25°	1923.5	1921.5	1944.0	1956.3	1964.5
27.5°	1857.9	1859.9	1888.7	1901.0	1911.2
30°	1788.2	1792.3	1825.1	1839.4	1853.8
32.5°	1714.4	1722.6	1759.5	1775.9	1790.2
35°	1638.5	1648.7	1689.7	1708.2	1724.6
37.5°	1562.6	1577.0	1620.0	1638.5	1656.9
40°	1482.6	1494.9	1544.1	1566.7	1589.3
42.5°	1400.6	1417.0	1466.2	1499.0	1525.7
45°	1316.5	1335.0	1388.3	1429.3	1460.1
47.5°	1232.4	1257.1	1308.3	1363.7	1390.3
50°	1148.4	1173.0	1230.4	1291.9	1318.6
52.5°	1062.2	1086.9	1152.5	1216.0	1244.8
55°	980.2	1004.8	1074.5	1144.3	1173.0
57.5°	894.1	920.7	998.7	1070.4	1099.2
60°	810.0	836.7	920.7	996.6	1027.4
62.5°	728.0	756.7	844.9	924.8	955.6
65°	643.9	676.7	769.0	853.1	885.9
67.5°	561.9	598.8	695.2	783.4	818.2
70°	479.9	522.9	625.5	715.7	750.5
72.5°	399.9	447.0	555.7	646.0	664.4
75°	322.0	377.3	490.1	533.2	529.1
77.5°	248.1	309.6	416.3	424.5	436.8
80°	180.5	248.1	311.7	328.1	319.9
82.5°	118.9	186.6	223.5	215.3	213.3
85°	67.7	116.9	125.1	114.8	114.8
87.5°	28.7	47.2	41.0	30.8	28.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)