

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: P261208

Luminaire Tested: **24CZ-LD5-75-S-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261208
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-L82765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7917.0 lumens
Efficiency: N/A
Efficacy: 132.4 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

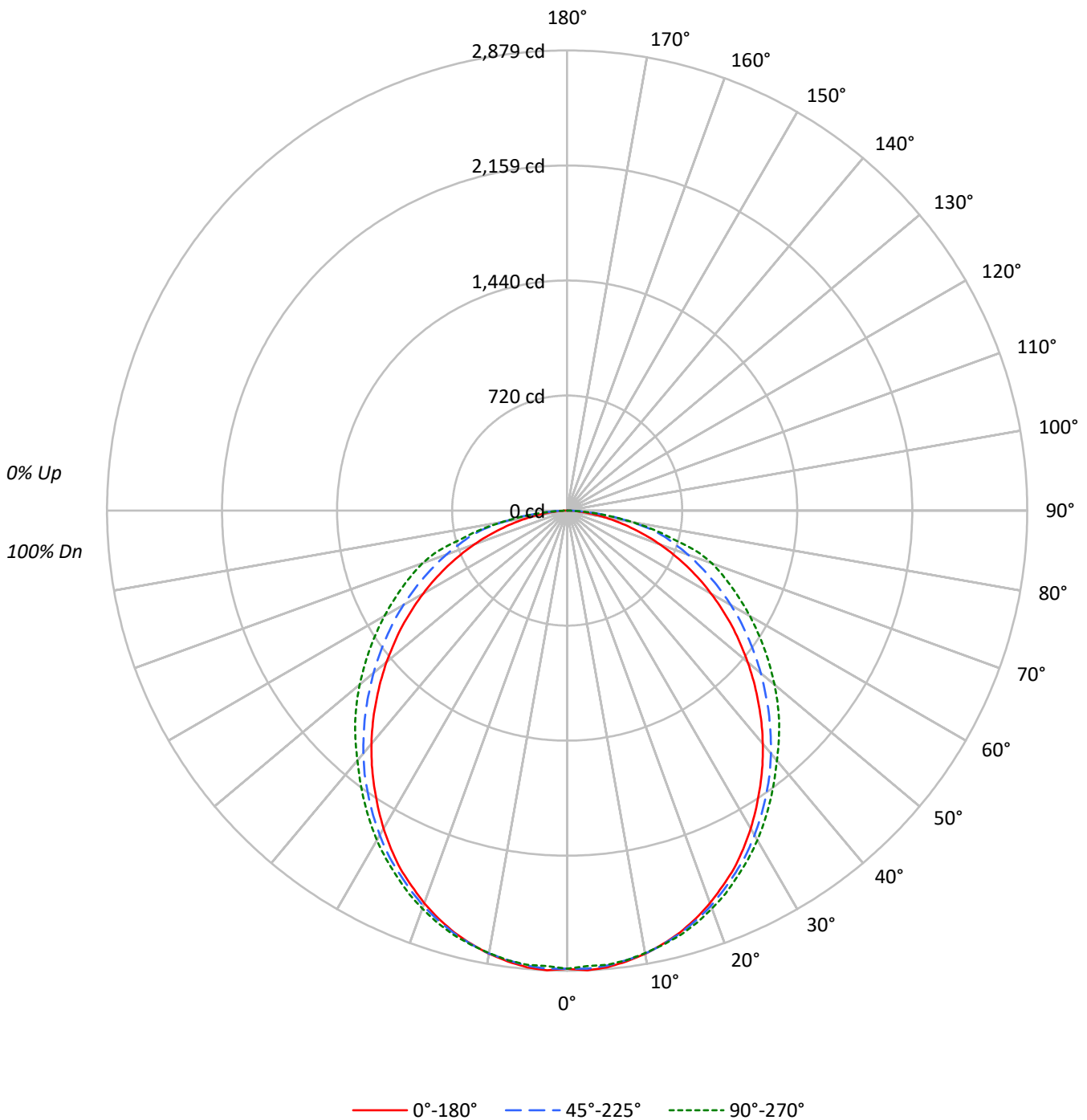
Input Watts (W): 59.799
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P261208

CATALOG NUMBER: 24CZ-LD5-75-S-UNV-L82765-W2A1-U-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P261208

CATALOG NUMBER: 24CZ-LD5-75-S-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	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°	3856	3856	3856
5°	3875	3860	3853
10°	3847	3844	3840
15°	3805	3813	3827
20°	3742	3768	3795
25°	3668	3707	3746
30°	3569	3643	3700
35°	3457	3565	3639
40°	3345	3484	3586
45°	3218	3393	3569
50°	3088	3309	3545
55°	2954	3238	3535
60°	2800	3183	3552
65°	2634	3145	3623
70°	2425	3161	3793
75°	2150	3273	3533
80°	1796	3102	3184
85°	1342	2481	2277



TEST NUMBER: P261208

CATALOG NUMBER: 24CZ-LD5-75-S-UNV-L82765-W2A1-U-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.0	3.4
10°-20°	770.7	9.7
20°-30°	1148.5	14.5
30°-40°	1352.0	17.1
40°-50°	1373.9	17.4
50°-60°	1235.2	15.6
60°-70°	975.9	12.3
70°-80°	619.1	7.8
80°-90°	170.9	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°	2190.1	27.7
0°-40°	3542.1	44.7
0°-60°	6151.2	77.7
0°-90°	7917.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7917.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2866	2866	2866	2866	2866	
5°	2869	2845	2858	2853	2853	272
15°	2732	2719	2737	2745	2748	769
25°	2471	2468	2497	2513	2524	1136
35°	2105	2118	2171	2194	2215	1317
45°	1691	1715	1783	1836	1876	1305
55°	1259	1291	1380	1470	1507	1124
65°	827	869	988	1096	1138	819
75°	414	485	630	685	680	440
85°	87	150	161	148	148	107
90°	0	0	0	0	0	



TEST NUMBER: P261208

CATALOG NUMBER: 24CZ-LD5-75-S-UNV-L82765-W2A1-U-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2866.1	2866.1	2866.1	2866.1	2866.1
2.5°	2879.3	2858.2	2868.7	2863.5	2852.9
5°	2868.7	2845.0	2858.2	2852.9	2852.9
7.5°	2845.0	2826.6	2837.1	2834.5	2837.1
10°	2816.0	2797.6	2813.4	2813.4	2810.8
12.5°	2776.5	2760.7	2779.2	2779.2	2781.8
15°	2731.8	2718.6	2737.0	2744.9	2747.6
17.5°	2676.4	2663.3	2687.0	2694.9	2702.8
20°	2613.2	2607.9	2631.6	2639.6	2650.1
22.5°	2542.1	2542.1	2565.8	2576.3	2592.1
25°	2471.0	2468.3	2497.3	2513.1	2523.6
27.5°	2386.7	2389.3	2426.2	2442.0	2455.2
30°	2297.1	2302.4	2344.5	2363.0	2381.4
32.5°	2202.3	2212.8	2260.2	2281.3	2299.7
35°	2104.8	2118.0	2170.6	2194.4	2215.4
37.5°	2007.3	2025.8	2081.1	2104.8	2128.5
40°	1904.6	1920.4	1983.6	2012.6	2041.6
42.5°	1799.2	1820.3	1883.5	1925.7	1959.9
45°	1691.2	1714.9	1783.4	1836.1	1875.6
47.5°	1583.2	1614.8	1680.7	1751.8	1786.0
50°	1475.2	1506.8	1580.6	1659.6	1693.8
52.5°	1364.6	1396.2	1480.5	1562.1	1599.0
55°	1259.2	1290.8	1380.4	1469.9	1506.8
57.5°	1148.5	1182.8	1282.9	1375.1	1412.0
60°	1040.5	1074.8	1182.8	1280.3	1319.8
62.5°	935.2	972.1	1085.3	1188.1	1227.6
65°	827.2	869.3	987.9	1095.9	1138.0
67.5°	721.8	769.2	893.0	1006.3	1051.1
70°	616.4	671.7	803.5	919.4	964.1
72.5°	513.7	574.3	713.9	829.8	853.5
75°	413.6	484.7	629.6	684.9	679.6
77.5°	318.7	397.8	534.8	545.3	561.1
80°	231.8	318.7	400.4	421.5	410.9
82.5°	152.8	239.7	287.1	276.6	274.0
85°	86.9	150.2	160.7	147.5	147.5
87.5°	36.9	60.6	52.7	39.5	36.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)