

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: P260920

Luminaire Tested: **24CZ-LD5-75-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260920
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-LD5-75-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6449.0 lumens
Efficiency: N/A
Efficacy: 110.2 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

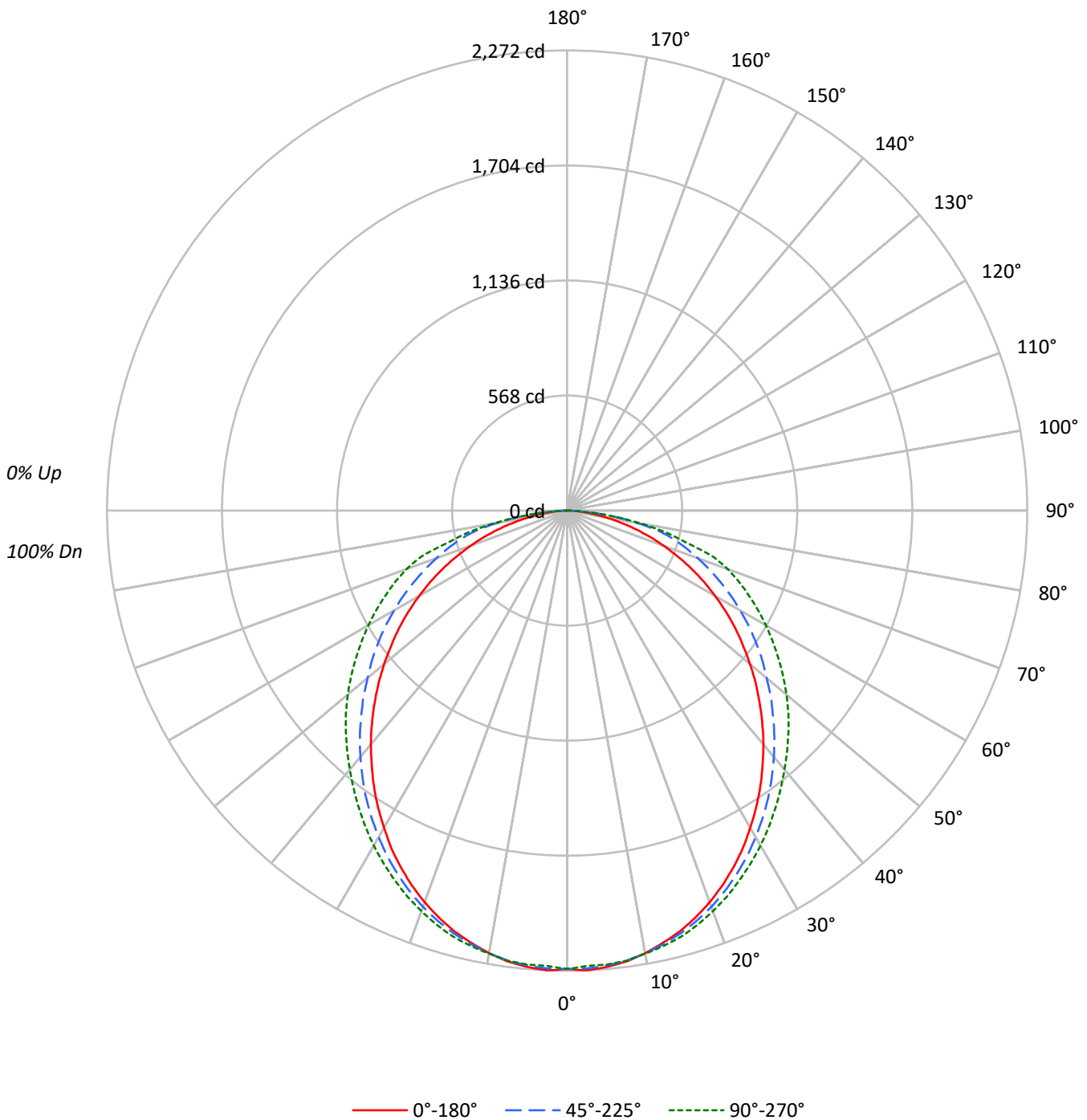
Input Watts (W): 58.497
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P260920

CATALOG NUMBER: 24CZ-LD5-75-UNV-L92765-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P260920

CATALOG NUMBER: 24CZ-LD5-75-UNV-L92765-W2A1-U-3500K

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°	3045	3045	3045
5°	3054	3045	3039
10°	3032	3032	3035
15°	2996	3011	3033
20°	2947	2981	3013
25°	2885	2940	2990
30°	2810	2892	2967
35°	2731	2843	2945
40°	2649	2788	2932
45°	2559	2735	2941
50°	2468	2690	2958
55°	2377	2673	2989
60°	2270	2656	3048
65°	2151	2657	3149
70°	1989	2701	3318
75°	1779	2824	3157
80°	1488	2703	2892
85°	1125	2079	1978



TEST NUMBER: P260920

CATALOG NUMBER: 24CZ-LD5-75-UNV-L92765-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.9	3.3
10°-20°	608.7	9.4
20°-30°	910.0	14.1
30°-40°	1079.5	16.7
40°-50°	1111.1	17.2
50°-60°	1019.3	15.8
60°-70°	824.2	12.8
70°-80°	534.9	8.3
80°-90°	147.5	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°	1732.6	26.9
0°-40°	2812.1	43.6
0°-60°	4942.5	76.6
0°-90°	6449.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6449.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2263	2263	2263	2263	2263	
5°	2261	2246	2254	2252	2250	215
15°	2151	2142	2162	2170	2177	606
25°	1943	1945	1981	1998	2014	894
35°	1663	1676	1731	1769	1793	1040
45°	1345	1367	1437	1506	1546	1038
55°	1014	1044	1139	1232	1274	905
65°	676	715	835	945	989	668
75°	342	406	543	607	607	364
85°	73	124	135	130	128	89
90°	0	0	0	0	0	



TEST NUMBER: P260920

CATALOG NUMBER: 24CZ-LD5-75-UNV-L92765-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2263.3	2263.3	2263.3	2263.3	2263.3
2.5°	2272.1	2254.4	2263.3	2261.1	2250.0
5°	2261.1	2245.6	2254.4	2252.2	2250.0
7.5°	2245.6	2230.1	2241.2	2239.0	2241.2
10°	2219.1	2205.9	2219.1	2221.3	2221.3
12.5°	2186.0	2174.9	2192.6	2197.0	2201.4
15°	2150.7	2141.8	2161.7	2170.5	2177.1
17.5°	2106.5	2099.9	2124.2	2135.2	2144.0
20°	2057.9	2055.7	2082.2	2093.2	2104.3
22.5°	2002.7	2002.7	2033.6	2046.9	2062.3
25°	1943.1	1945.3	1980.6	1998.3	2013.8
27.5°	1879.1	1881.3	1923.2	1945.3	1963.0
30°	1808.4	1817.2	1861.4	1890.1	1910.0
32.5°	1737.7	1748.8	1797.4	1830.5	1852.6
35°	1662.7	1675.9	1731.1	1768.7	1792.9
37.5°	1585.4	1600.8	1660.5	1702.4	1731.1
40°	1508.1	1525.8	1587.6	1636.2	1669.3
42.5°	1426.4	1446.3	1514.7	1572.1	1607.5
45°	1344.7	1366.8	1437.4	1505.9	1545.6
47.5°	1263.0	1289.5	1364.6	1439.7	1481.6
50°	1179.1	1205.6	1285.1	1371.2	1413.2
52.5°	1095.2	1126.1	1214.4	1302.8	1344.7
55°	1013.5	1044.4	1139.4	1232.1	1274.1
57.5°	929.6	960.5	1064.3	1161.4	1203.4
60°	843.5	878.8	987.0	1086.4	1132.7
62.5°	759.6	797.1	911.9	1017.9	1062.1
65°	675.7	715.4	834.6	945.1	989.2
67.5°	589.6	635.9	759.6	872.2	918.6
70°	505.6	556.4	686.7	799.3	843.5
72.5°	423.9	479.1	613.8	728.7	755.2
75°	342.2	406.3	543.2	607.2	607.2
77.5°	265.0	335.6	463.7	488.0	501.2
80°	192.1	269.4	348.9	377.6	373.2
82.5°	128.1	205.3	249.5	249.5	242.9
85°	72.9	123.7	134.7	130.3	128.1
87.5°	30.9	46.4	42.0	33.1	28.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)