

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: P260913

Luminaire Tested: **24CZ-LD5-70-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260913
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-LD5-70-UNV-L92765-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6389.0 lumens
Efficiency: N/A
Efficacy: 116.8 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

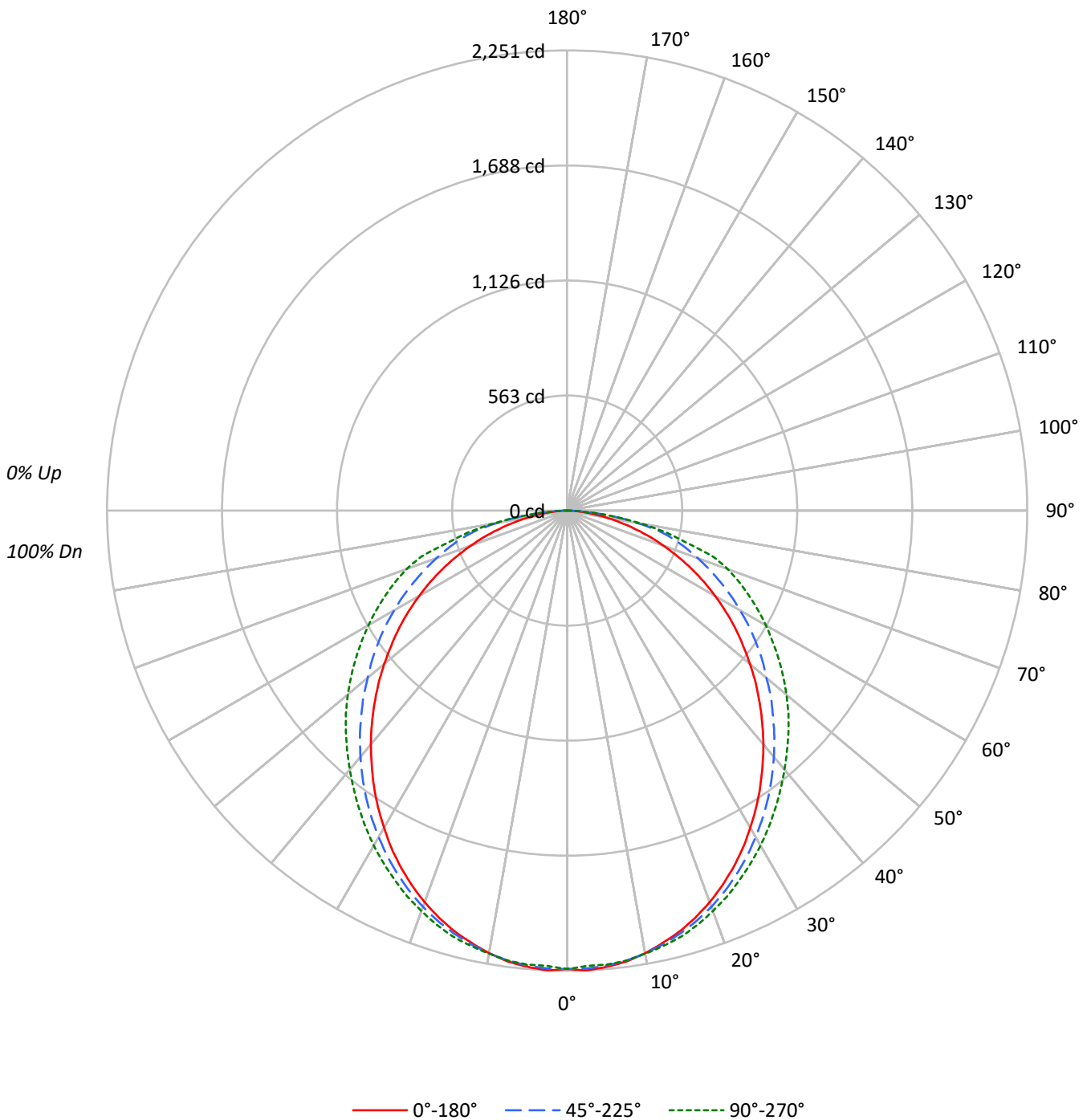
Input Watts (W): 54.684
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P260913

CATALOG NUMBER: 24CZ-LD5-70-UNV-L92765-W2A1-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P260913

CATALOG NUMBER: 24CZ-LD5-70-UNV-L92765-W2A1-U-4500K

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°	3017	3017	3017
5°	3025	3017	3011
10°	3004	3004	3007
15°	2968	2983	3004
20°	2919	2954	2985
25°	2858	2913	2962
30°	2783	2865	2940
35°	2706	2817	2918
40°	2624	2762	2905
45°	2535	2710	2914
50°	2445	2665	2930
55°	2355	2648	2961
60°	2249	2631	3020
65°	2131	2633	3120
70°	1971	2676	3287
75°	1763	2797	3127
80°	1475	2678	2865
85°	1115	2059	1959



TEST NUMBER: P260913

CATALOG NUMBER: 24CZ-LD5-70-UNV-L92765-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.9	3.3
10°-20°	603.0	9.4
20°-30°	901.5	14.1
30°-40°	1069.5	16.7
40°-50°	1100.8	17.2
50°-60°	1009.8	15.8
60°-70°	816.5	12.8
70°-80°	529.9	8.3
80°-90°	146.1	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°	1716.4	26.9
0°-40°	2785.9	43.6
0°-60°	4896.5	76.6
0°-90°	6389.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6389.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2242	2242	2242	2242	2242	
5°	2240	2225	2234	2231	2229	213
15°	2131	2122	2142	2150	2157	600
25°	1925	1927	1962	1980	1995	886
35°	1647	1660	1715	1752	1776	1030
45°	1332	1354	1424	1492	1531	1028
55°	1004	1035	1129	1221	1262	897
65°	669	709	827	936	980	662
75°	339	402	538	602	602	360
85°	72	122	133	129	127	88
90°	0	0	0	0	0	



TEST NUMBER: P260913

CATALOG NUMBER: 24CZ-LD5-70-UNV-L92765-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2242.2	2242.2	2242.2	2242.2	2242.2
2.5°	2251.0	2233.5	2242.2	2240.0	2229.1
5°	2240.0	2224.7	2233.5	2231.3	2229.1
7.5°	2224.7	2209.4	2220.3	2218.1	2220.3
10°	2198.5	2185.3	2198.5	2200.6	2200.6
12.5°	2165.6	2154.7	2172.2	2176.6	2181.0
15°	2130.6	2121.9	2141.6	2150.3	2156.9
17.5°	2086.9	2080.3	2104.4	2115.3	2124.1
20°	2038.8	2036.6	2062.8	2073.8	2084.7
22.5°	1984.1	1984.1	2014.7	2027.8	2043.1
25°	1925.0	1927.2	1962.2	1979.7	1995.0
27.5°	1861.6	1863.8	1905.3	1927.2	1944.7
30°	1791.6	1800.3	1844.1	1872.5	1892.2
32.5°	1721.6	1732.5	1780.6	1813.5	1835.3
35°	1647.2	1660.3	1715.0	1752.2	1776.3
37.5°	1570.6	1586.0	1645.0	1686.6	1715.0
40°	1494.1	1511.6	1572.8	1621.0	1653.8
42.5°	1413.1	1432.8	1500.6	1557.5	1592.5
45°	1332.2	1354.1	1424.1	1491.9	1531.3
47.5°	1251.3	1277.5	1351.9	1426.3	1467.8
50°	1168.1	1194.4	1273.1	1358.4	1400.0
52.5°	1085.0	1115.6	1203.1	1290.6	1332.2
55°	1004.1	1034.7	1128.8	1220.6	1262.2
57.5°	920.9	951.6	1054.4	1150.6	1192.2
60°	835.6	870.6	977.8	1076.3	1122.2
62.5°	752.5	789.7	903.4	1008.4	1052.2
65°	669.4	708.8	826.9	936.3	980.0
67.5°	584.1	630.0	752.5	864.1	910.0
70°	500.9	551.3	680.3	791.9	835.6
72.5°	420.0	474.7	608.1	721.9	748.1
75°	339.1	402.5	538.1	601.6	601.6
77.5°	262.5	332.5	459.4	483.4	496.6
80°	190.3	266.9	345.6	374.1	369.7
82.5°	126.9	203.4	247.2	247.2	240.6
85°	72.2	122.5	133.4	129.1	126.9
87.5°	30.6	45.9	41.6	32.8	28.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)