

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: P260971

Luminaire Tested: **24CZ-LD5-50SE-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260971
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-LD5-50SE-UNV-L92765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4747.0 lumens
Efficiency: N/A
Efficacy: 114.2 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

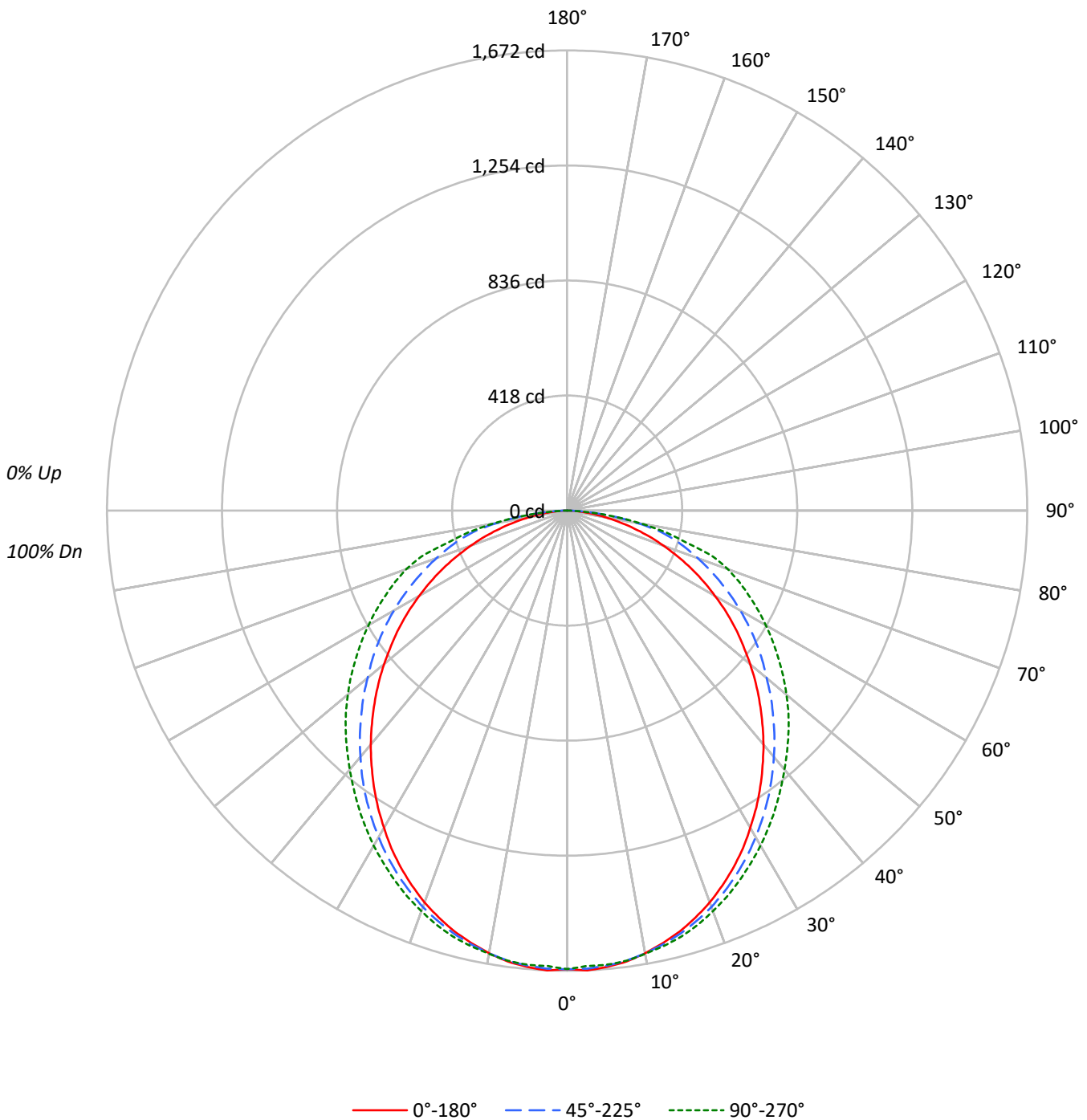
Input Watts (W): 41.571
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P260971

CATALOG NUMBER: 24CZ-LD5-50SE-UNV-L92765-W2A1-U-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P260971

CATALOG NUMBER: 24CZ-LD5-50SE-UNV-L92765-W2A1-U-6500K

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°	2242	2242	2242
5°	2248	2241	2237
10°	2232	2232	2234
15°	2205	2216	2232
20°	2169	2195	2218
25°	2123	2164	2201
30°	2068	2129	2184
35°	2010	2093	2168
40°	1950	2053	2158
45°	1883	2013	2165
50°	1817	1980	2177
55°	1750	1967	2200
60°	1671	1955	2244
65°	1583	1956	2318
70°	1464	1989	2443
75°	1310	2078	2324
80°	1096	1990	2128
85°	827	1530	1456



TEST NUMBER: P260971

CATALOG NUMBER: 24CZ-LD5-50SE-UNV-L92765-W2A1-U-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.4	3.3
10°-20°	448.1	9.4
20°-30°	669.8	14.1
30°-40°	794.6	16.7
40°-50°	817.9	17.2
50°-60°	750.3	15.8
60°-70°	606.6	12.8
70°-80°	393.7	8.3
80°-90°	108.6	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°	1275.3	26.9
0°-40°	2069.9	43.6
0°-60°	3638.1	76.6
0°-90°	4747.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4747.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1666	1666	1666	1666	1666	
5°	1664	1653	1659	1658	1656	158
15°	1583	1577	1591	1598	1603	446
25°	1430	1432	1458	1471	1482	658
35°	1224	1234	1274	1302	1320	765
45°	990	1006	1058	1108	1138	764
55°	746	769	839	907	938	666
65°	497	527	614	696	728	491
75°	252	299	400	447	447	268
85°	54	91	99	96	94	66
90°	0	0	0	0	0	



TEST NUMBER: P260971

CATALOG NUMBER: 24CZ-LD5-50SE-UNV-L92765-W2A1-U-6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1666.0	1666.0	1666.0	1666.0	1666.0
2.5°	1672.5	1659.4	1666.0	1664.3	1656.2
5°	1664.3	1652.9	1659.4	1657.8	1656.2
7.5°	1652.9	1641.6	1649.7	1648.1	1649.7
10°	1633.4	1623.7	1633.4	1635.1	1635.1
12.5°	1609.1	1600.9	1613.9	1617.2	1620.4
15°	1583.1	1576.6	1591.2	1597.7	1602.6
17.5°	1550.6	1545.7	1563.6	1571.7	1578.2
20°	1514.8	1513.2	1532.7	1540.8	1548.9
22.5°	1474.2	1474.2	1496.9	1506.7	1518.0
25°	1430.3	1431.9	1457.9	1470.9	1482.3
27.5°	1383.1	1384.8	1415.7	1431.9	1444.9
30°	1331.1	1337.6	1370.1	1391.3	1405.9
32.5°	1279.1	1287.3	1323.0	1347.4	1363.6
35°	1223.9	1233.6	1274.2	1301.9	1319.8
37.5°	1167.0	1178.4	1222.2	1253.1	1274.2
40°	1110.1	1123.1	1168.6	1204.4	1228.7
42.5°	1050.0	1064.6	1115.0	1157.2	1183.2
45°	989.8	1006.1	1058.1	1108.5	1137.7
47.5°	929.7	949.2	1004.4	1059.7	1090.6
50°	867.9	887.4	945.9	1009.3	1040.2
52.5°	806.2	828.9	893.9	958.9	989.8
55°	746.0	768.8	838.7	906.9	937.8
57.5°	684.3	707.0	783.4	854.9	885.8
60°	620.9	646.9	726.5	799.7	833.8
62.5°	559.1	586.7	671.3	749.3	781.8
65°	497.3	526.6	614.4	695.6	728.1
67.5°	434.0	468.1	559.1	642.0	676.1
70°	372.2	409.6	505.5	588.4	620.9
72.5°	312.1	352.7	451.8	536.4	555.9
75°	251.9	299.1	399.8	447.0	447.0
77.5°	195.0	247.0	341.3	359.2	368.9
80°	141.4	198.3	256.8	277.9	274.7
82.5°	94.3	151.2	183.7	183.7	178.8
85°	53.6	91.0	99.1	95.9	94.3
87.5°	22.8	34.1	30.9	24.4	21.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)