

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: P260877

Luminaire Tested: **24CZ-LD5-50-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260877
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-LD5-50-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: 4554.0 lumens
Efficiency: N/A
Efficacy: 125.2 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

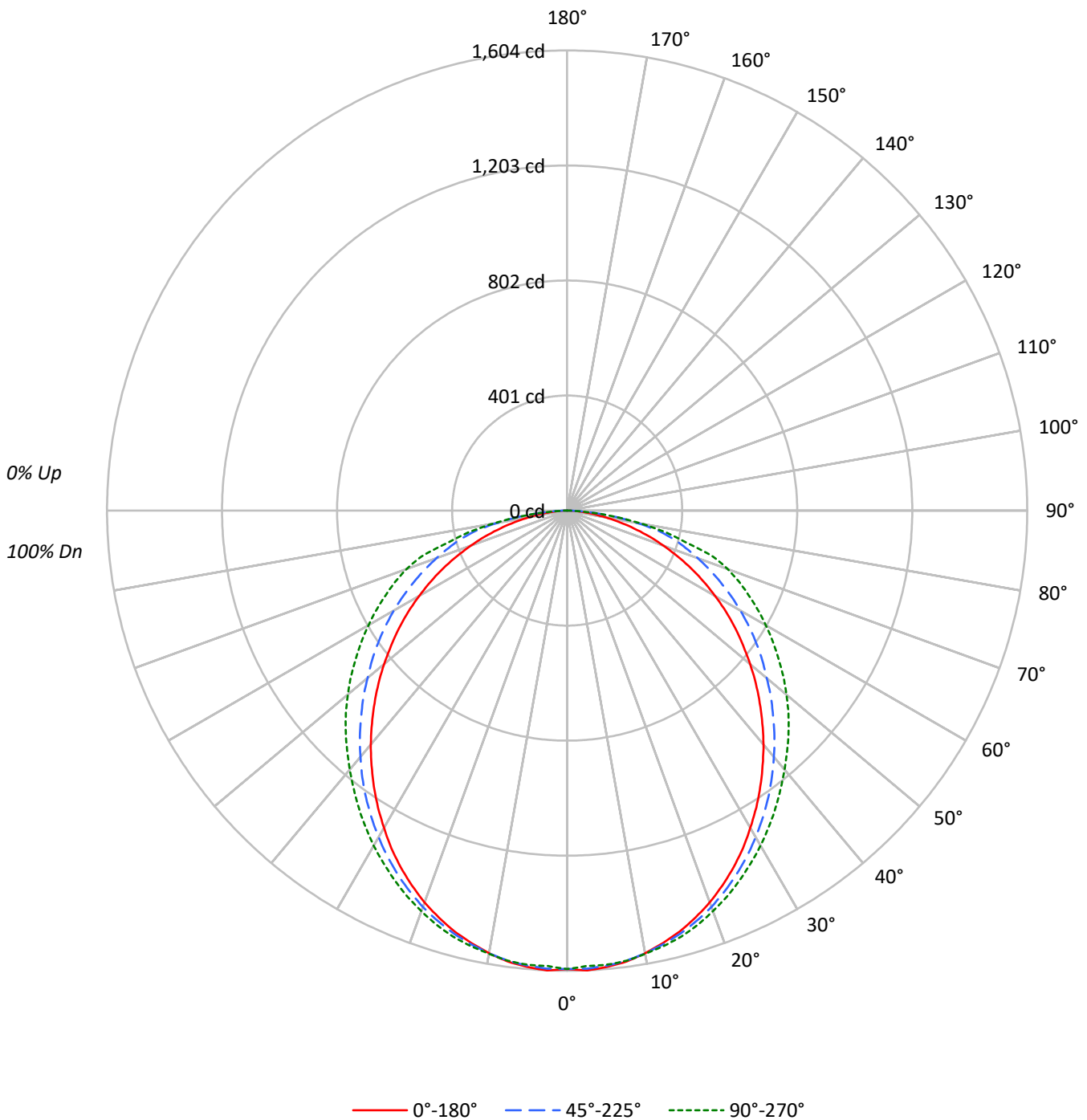
Input Watts (W): 36.363
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P260877

CATALOG NUMBER: 24CZ-LD5-50-UNV-L92765-W2A1-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P260877

CATALOG NUMBER: 24CZ-LD5-50-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°	2150	2150	2150
5°	2157	2150	2146
10°	2141	2141	2143
15°	2115	2126	2142
20°	2081	2105	2128
25°	2037	2076	2111
30°	1984	2042	2095
35°	1929	2008	2080
40°	1871	1969	2070
45°	1807	1932	2077
50°	1743	1900	2089
55°	1679	1887	2111
60°	1603	1876	2153
65°	1519	1876	2224
70°	1405	1908	2343
75°	1256	1994	2229
80°	1051	1909	2042
85°	795	1468	1396



TEST NUMBER: P260877

CATALOG NUMBER: 24CZ-LD5-50-UNV-L92765-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.0	3.3
10°-20°	429.8	9.4
20°-30°	642.6	14.1
30°-40°	762.3	16.7
40°-50°	784.6	17.2
50°-60°	719.8	15.8
60°-70°	582.0	12.8
70°-80°	377.7	8.3
80°-90°	104.1	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°	1223.5	26.9
0°-40°	1985.8	43.6
0°-60°	3490.2	76.6
0°-90°	4554.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4554.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1598	1598	1598	1598	1598	
5°	1597	1586	1592	1590	1589	151
15°	1519	1512	1526	1533	1537	428
25°	1372	1374	1399	1411	1422	632
35°	1174	1184	1222	1249	1266	734
45°	950	965	1015	1063	1092	733
55°	716	738	805	870	900	639
65°	477	505	589	667	698	472
75°	242	287	384	429	429	257
85°	52	87	95	92	90	63
90°	0	0	0	0	0	



TEST NUMBER: P260877

CATALOG NUMBER: 24CZ-LD5-50-UNV-L92765-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1598.2	1598.2	1598.2	1598.2	1598.2
2.5°	1604.5	1592.0	1598.2	1596.7	1588.9
5°	1596.7	1585.7	1592.0	1590.4	1588.9
7.5°	1585.7	1574.8	1582.6	1581.1	1582.6
10°	1567.0	1557.7	1567.0	1568.6	1568.6
12.5°	1543.6	1535.8	1548.3	1551.4	1554.6
15°	1518.7	1512.5	1526.5	1532.7	1537.4
17.5°	1487.5	1482.8	1500.0	1507.8	1514.0
20°	1453.2	1451.6	1470.4	1478.2	1486.0
22.5°	1414.2	1414.2	1436.1	1445.4	1456.3
25°	1372.1	1373.7	1398.6	1411.1	1422.0
27.5°	1326.9	1328.5	1358.1	1373.7	1386.2
30°	1277.0	1283.3	1314.4	1334.7	1348.7
32.5°	1227.1	1234.9	1269.2	1292.6	1308.2
35°	1174.1	1183.5	1222.4	1248.9	1266.1
37.5°	1119.5	1130.4	1172.5	1202.2	1222.4
40°	1065.0	1077.4	1121.1	1155.4	1178.8
42.5°	1007.3	1021.3	1069.6	1110.2	1135.1
45°	949.6	965.2	1015.1	1063.4	1091.5
47.5°	891.9	910.6	963.6	1016.6	1046.2
50°	832.6	851.3	907.5	968.3	997.9
52.5°	773.4	795.2	857.6	919.9	949.6
55°	715.7	737.5	804.6	870.1	899.7
57.5°	656.4	678.3	751.6	820.2	849.8
60°	595.6	620.6	697.0	767.1	799.9
62.5°	536.4	562.9	644.0	718.8	750.0
65°	477.1	505.2	589.4	667.4	698.5
67.5°	416.3	449.1	536.4	615.9	648.6
70°	357.1	392.9	484.9	564.4	595.6
72.5°	299.4	338.4	433.5	514.5	533.3
75°	241.7	286.9	383.6	428.8	428.8
77.5°	187.1	237.0	327.4	344.6	353.9
80°	135.7	190.2	246.4	266.6	263.5
82.5°	90.4	145.0	176.2	176.2	171.5
85°	51.5	87.3	95.1	92.0	90.4
87.5°	21.8	32.7	29.6	23.4	20.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)