

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: P263616

Luminaire Tested: **24CZ-LD5-75-RDP-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263616  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ-LD5-75-RDP-UNV-L93050-W2A1-U-5000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4893.1 lumens  
Efficiency: N/A  
Efficacy: 80.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

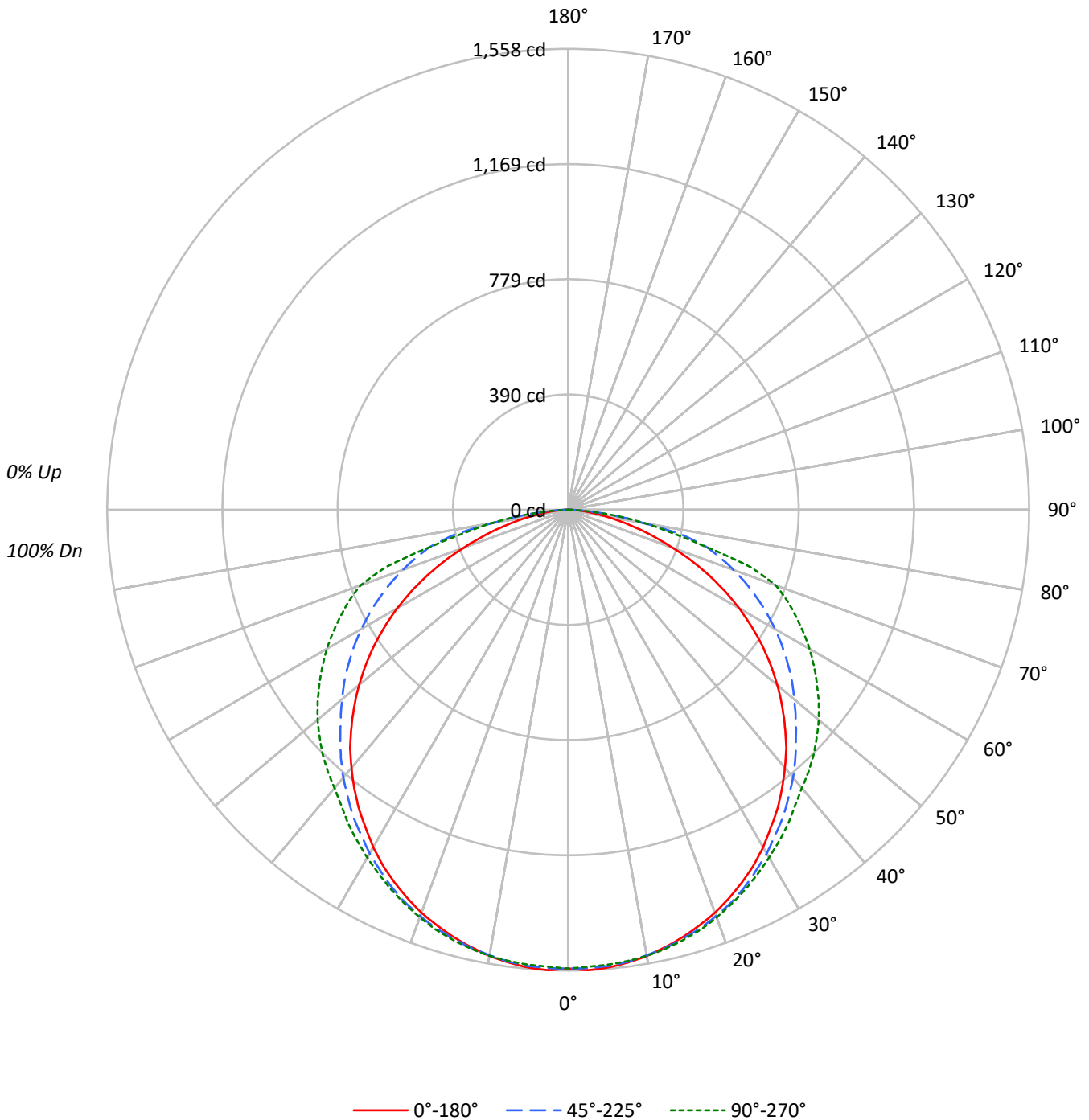
Input Watts (W): 60.856968  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P263616

CATALOG NUMBER: 24CZ-LD5-75-RDP-UNV-L93050-W2A1-U-5000K

### Luminous Intensity Polar Plot





TEST NUMBER: P263616

CATALOG NUMBER: 24CZ-LD5-75-RDP-UNV-L93050-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	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2087	2087	2087
5°	2098	2092	2085
10°	2093	2090	2093
15°	2084	2090	2097
20°	2076	2093	2100
25°	2063	2092	2103
30°	2047	2084	2111
35°	2026	2081	2129
40°	2001	2077	2158
45°	1971	2072	2232
50°	1931	2087	2314
55°	1876	2125	2407
60°	1795	2171	2534
65°	1672	2239	2699
70°	1478	2340	2937
75°	1240	2504	2467
80°	989	1978	2053
85°	781	1338	1227



TEST NUMBER: P263616

CATALOG NUMBER: 24CZ-LD5-75-RDP-UNV-L93050-W2A1-U-5000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.1	3.0
10°-20°	423.4	8.7
20°-30°	646.7	13.2
30°-40°	790.7	16.2
40°-50°	846.3	17.3
50°-60°	811.8	16.6
60°-70°	685.4	14.0
70°-80°	438.0	9.0
80°-90°	103.6	2.1
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°	1217.3	24.9
0°-40°	2007.9	41.0
0°-60°	3666.1	74.9
0°-90°	4893.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4893.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1551	1551	1551	1551	1551	
5°	1554	1544	1549	1546	1544	148
15°	1496	1491	1501	1505	1505	422
25°	1390	1387	1409	1414	1416	641
35°	1233	1243	1267	1284	1296	771
45°	1036	1053	1089	1139	1173	799
55°	800	826	906	988	1026	714
65°	525	576	703	802	848	518
75°	238	340	482	491	474	257
85°	51	84	87	84	80	61
90°	0	0	0	0	0	



TEST NUMBER: P263616

CATALOG NUMBER: 24CZ-LD5-75-RDP-UNV-L93050-W2A1-U-5000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1551.2	1551.2	1551.2	1551.2	1551.2
2.5°	1558.4	1548.8	1551.2	1551.2	1546.3
5°	1553.6	1543.9	1548.8	1546.3	1543.9
7.5°	1543.9	1536.7	1541.5	1541.5	1539.1
10°	1531.9	1524.7	1529.5	1531.9	1531.9
12.5°	1515.0	1510.2	1517.4	1517.4	1519.9
15°	1495.8	1491.0	1500.6	1505.4	1505.4
17.5°	1474.1	1471.7	1483.7	1486.1	1488.5
20°	1450.0	1447.6	1462.0	1462.0	1466.9
22.5°	1421.1	1418.7	1438.0	1438.0	1442.8
25°	1389.8	1387.4	1409.1	1413.9	1416.3
27.5°	1356.1	1353.7	1375.3	1382.6	1387.4
30°	1317.5	1317.5	1341.6	1351.2	1358.5
32.5°	1274.2	1281.4	1303.1	1317.5	1327.2
35°	1233.2	1242.9	1266.9	1283.8	1295.9
37.5°	1187.5	1197.1	1223.6	1245.3	1259.7
40°	1139.3	1151.3	1182.6	1206.7	1228.4
42.5°	1091.1	1103.2	1136.9	1173.0	1201.9
45°	1035.7	1052.6	1088.7	1139.3	1173.0
47.5°	980.3	997.2	1042.9	1105.6	1139.3
50°	922.5	941.8	997.2	1069.4	1105.6
52.5°	862.3	884.0	953.8	1030.9	1067.0
55°	799.7	826.2	905.7	987.5	1026.1
57.5°	734.6	763.5	857.5	944.2	985.1
60°	667.2	703.3	806.9	898.4	941.8
62.5°	597.3	640.7	756.3	850.3	896.0
65°	525.1	575.7	703.3	802.1	847.8
67.5°	450.4	517.9	650.3	753.9	799.7
70°	375.7	455.2	594.9	700.9	746.7
72.5°	305.9	397.4	539.5	638.3	647.9
75°	238.5	339.6	481.7	491.4	474.5
77.5°	178.2	281.8	397.4	354.1	351.7
80°	127.7	226.4	255.3	262.5	265.0
82.5°	84.3	171.0	166.2	171.0	168.6
85°	50.6	84.3	86.7	84.3	79.5
87.5°	24.1	31.3	24.1	21.7	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)