

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: P263728

Luminaire Tested: **24CZ-LD5-75-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263728  
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-L82765-W2A1-U-5000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5395.0 lumens  
Efficiency: N/A  
Efficacy: 90.2 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

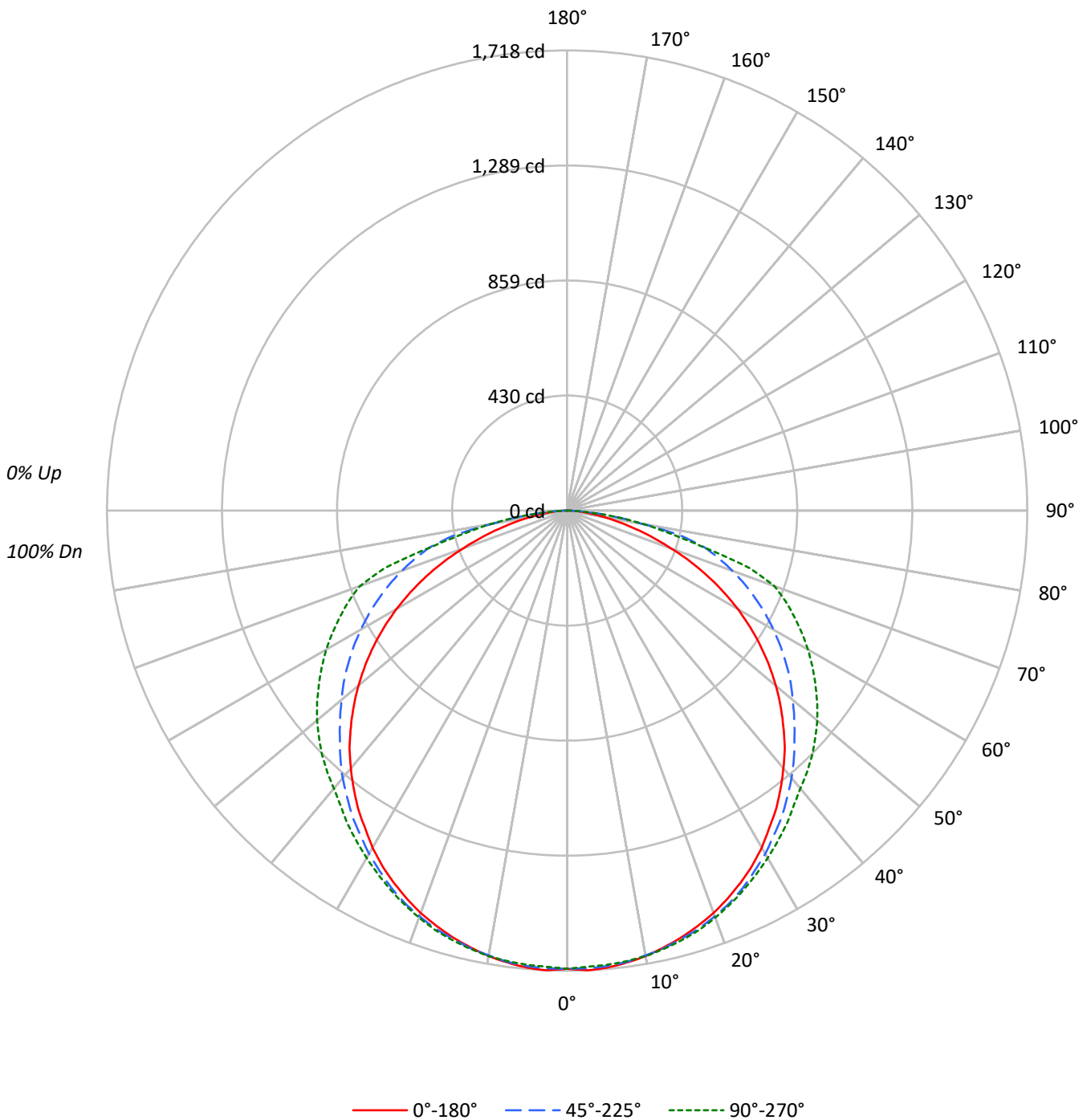
Input Watts (W): 59.799  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P263728

CATALOG NUMBER: 24CZ-LD5-75-RDP-UNV-L82765-W2A1-U-5000K

### Luminous Intensity Polar Plot





TEST NUMBER: P263728

CATALOG NUMBER: 24CZ-LD5-75-RDP-UNV-L82765-W2A1-U-5000K

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	62	58
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37
7	63	49	40	34	61	48	40	34	47	39	34	45	38	33	44	38	33
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29
9	55	41	33	27	53	41	32	27	39	32	27	38	32	27	37	31	27
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24

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

	0°	45°	90°
0°	2301	2301	2301
5°	2313	2306	2299
10°	2308	2304	2308
15°	2297	2305	2312
20°	2289	2308	2316
25°	2275	2306	2318
30°	2257	2298	2327
35°	2233	2294	2347
40°	2206	2290	2379
45°	2173	2284	2461
50°	2129	2301	2552
55°	2068	2342	2654
60°	1979	2394	2794
65°	1843	2469	2976
70°	1630	2581	3239
75°	1367	2761	2720
80°	1091	2181	2263
85°	861	1476	1352



TEST NUMBER: P263728

CATALOG NUMBER: 24CZ-LD5-75-RDP-UNV-L82765-W2A1-U-5000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.2	3.0
10°-20°	466.8	8.7
20°-30°	713.1	13.2
30°-40°	871.8	16.2
40°-50°	933.1	17.3
50°-60°	895.0	16.6
60°-70°	755.7	14.0
70°-80°	483.0	9.0
80°-90°	114.2	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°	1342.1	24.9
0°-40°	2213.9	41.0
0°-60°	4042.1	74.9
0°-90°	5395.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5395.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1710	1710	1710	1710	1710	
5°	1713	1702	1708	1705	1702	163
15°	1649	1644	1654	1660	1660	466
25°	1532	1530	1554	1559	1562	706
35°	1360	1370	1397	1416	1429	850
45°	1142	1160	1200	1256	1293	881
55°	882	911	998	1089	1131	787
65°	579	635	776	884	935	571
75°	263	374	531	542	523	283
85°	56	93	96	93	88	67
90°	0	0	0	0	0	



TEST NUMBER: P263728

CATALOG NUMBER: 24CZ-LD5-75-RDP-UNV-L82765-W2A1-U-5000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1710.3	1710.3	1710.3	1710.3	1710.3
2.5°	1718.2	1707.6	1710.3	1710.3	1704.9
5°	1712.9	1702.3	1707.6	1704.9	1702.3
7.5°	1702.3	1694.3	1699.6	1699.6	1697.0
10°	1689.0	1681.0	1686.4	1689.0	1689.0
12.5°	1670.4	1665.1	1673.1	1673.1	1675.7
15°	1649.2	1643.9	1654.5	1659.8	1659.8
17.5°	1625.3	1622.6	1635.9	1638.6	1641.2
20°	1598.7	1596.1	1612.0	1612.0	1617.3
22.5°	1566.9	1564.2	1585.4	1585.4	1590.8
25°	1532.3	1529.7	1553.6	1558.9	1561.5
27.5°	1495.1	1492.5	1516.4	1524.4	1529.7
30°	1452.7	1452.7	1479.2	1489.8	1497.8
32.5°	1404.9	1412.8	1436.7	1452.7	1463.3
35°	1359.7	1370.3	1396.9	1415.5	1428.8
37.5°	1309.3	1319.9	1349.1	1373.0	1388.9
40°	1256.1	1269.4	1303.9	1330.5	1354.4
42.5°	1203.0	1216.3	1253.5	1293.3	1325.2
45°	1141.9	1160.5	1200.4	1256.1	1293.3
47.5°	1080.9	1099.5	1149.9	1219.0	1256.1
50°	1017.1	1038.4	1099.5	1179.1	1219.0
52.5°	950.7	974.6	1051.7	1136.6	1176.5
55°	881.7	910.9	998.5	1088.8	1131.3
57.5°	810.0	841.9	945.4	1041.0	1086.2
60°	735.6	775.5	889.7	990.6	1038.4
62.5°	658.6	706.4	833.9	937.5	987.9
65°	578.9	634.7	775.5	884.3	934.8
67.5°	496.6	571.0	717.0	831.2	881.7
70°	414.3	501.9	656.0	772.8	823.3
72.5°	337.3	438.2	594.9	703.8	714.4
75°	262.9	374.5	531.1	641.8	653.2
77.5°	196.5	310.7	438.2	490.4	487.7
80°	140.8	249.6	281.5	289.5	292.1
82.5°	92.9	188.6	183.2	188.6	185.9
85°	55.8	92.9	95.6	92.9	87.6
87.5°	26.6	34.5	26.6	23.9	21.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)