

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: P263707

Luminaire Tested: **24CZ-LD5-65-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263707  
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-LD5-65-RDP-UNV-L82765-W2A1-U-3500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4437.0 lumens  
Efficiency: N/A  
Efficacy: 90.4 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

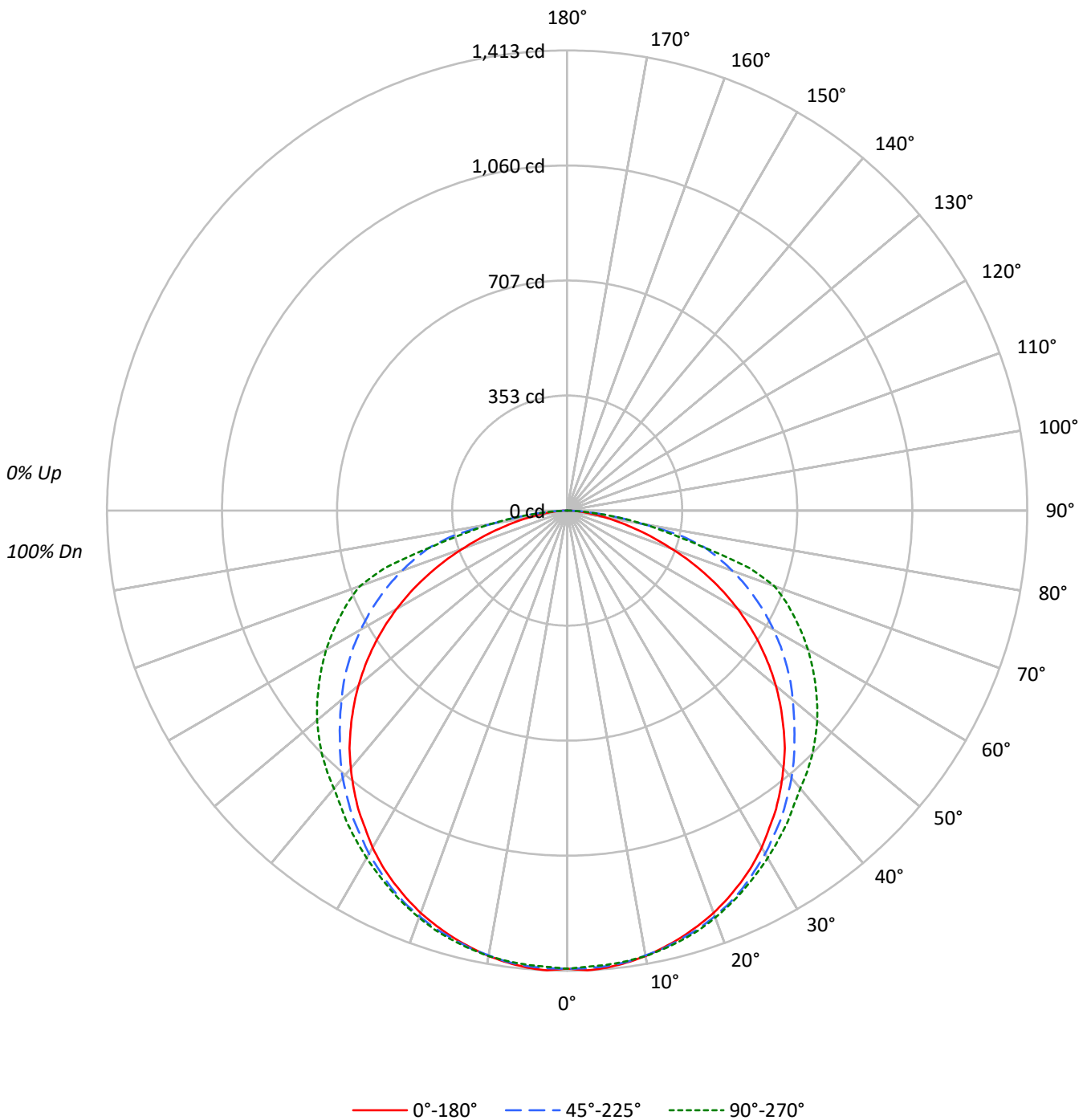
Input Watts (W): 49.104  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P263707

CATALOG NUMBER: 24CZ-LD5-65-RDP-UNV-L82765-W2A1-U-3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P263707

CATALOG NUMBER: 24CZ-LD5-65-RDP-UNV-L82765-W2A1-U-3500K

**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°	1893	1893	1893
5°	1903	1897	1891
10°	1898	1895	1898
15°	1889	1895	1902
20°	1883	1898	1904
25°	1871	1897	1907
30°	1856	1890	1914
35°	1837	1887	1930
40°	1815	1884	1956
45°	1787	1878	2024
50°	1751	1893	2098
55°	1701	1926	2183
60°	1628	1969	2298
65°	1516	2031	2448
70°	1340	2122	2664
75°	1124	2271	2237
80°	897	1794	1862
85°	709	1213	1113



TEST NUMBER: P263707

CATALOG NUMBER: 24CZ-LD5-65-RDP-UNV-L82765-W2A1-U-3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.4	3.0
10°-20°	383.9	8.7
20°-30°	586.4	13.2
30°-40°	717.0	16.2
40°-50°	767.4	17.3
50°-60°	736.1	16.6
60°-70°	621.5	14.0
70°-80°	397.2	9.0
80°-90°	93.9	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°	1103.8	24.9
0°-40°	1820.8	41.0
0°-60°	3324.3	74.9
0°-90°	4437.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4437.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1407	1407	1407	1407	1407	
5°	1409	1400	1404	1402	1400	134
15°	1356	1352	1361	1365	1365	383
25°	1260	1258	1278	1282	1284	581
35°	1118	1127	1149	1164	1175	699
45°	939	954	987	1033	1064	724
55°	725	749	821	896	930	647
65°	476	522	638	727	769	470
75°	216	308	437	446	430	233
85°	46	76	79	76	72	55
90°	0	0	0	0	0	



TEST NUMBER: P263707

CATALOG NUMBER: 24CZ-LD5-65-RDP-UNV-L82765-W2A1-U-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1406.6	1406.6	1406.6	1406.6	1406.6
2.5°	1413.1	1404.4	1406.6	1406.6	1402.2
5°	1408.8	1400.0	1404.4	1402.2	1400.0
7.5°	1400.0	1393.5	1397.8	1397.8	1395.6
10°	1389.1	1382.5	1386.9	1389.1	1389.1
12.5°	1373.8	1369.4	1376.0	1376.0	1378.2
15°	1356.3	1352.0	1360.7	1365.1	1365.1
17.5°	1336.7	1334.5	1345.4	1347.6	1349.8
20°	1314.8	1312.6	1325.8	1325.8	1330.1
22.5°	1288.6	1286.4	1303.9	1303.9	1308.3
25°	1260.2	1258.0	1277.7	1282.1	1284.3
27.5°	1229.7	1227.5	1247.1	1253.7	1258.0
30°	1194.7	1194.7	1216.5	1225.3	1231.8
32.5°	1155.4	1161.9	1181.6	1194.7	1203.4
35°	1118.3	1127.0	1148.8	1164.1	1175.1
37.5°	1076.8	1085.5	1109.5	1129.2	1142.3
40°	1033.1	1044.0	1072.4	1094.2	1113.9
42.5°	989.4	1000.3	1030.9	1063.7	1089.9
45°	939.2	954.5	987.2	1033.1	1063.7
47.5°	888.9	904.2	945.7	1002.5	1033.1
50°	836.5	854.0	904.2	969.7	1002.5
52.5°	781.9	801.6	864.9	934.8	967.6
55°	725.1	749.1	821.2	895.5	930.4
57.5°	666.2	692.4	777.5	856.2	893.3
60°	605.0	637.8	731.7	814.7	854.0
62.5°	541.7	581.0	685.8	771.0	812.5
65°	476.1	522.0	637.8	727.3	768.8
67.5°	408.4	469.6	589.7	683.6	725.1
70°	340.7	412.8	539.5	635.6	677.1
72.5°	277.4	360.4	489.2	578.8	587.5
75°	216.2	308.0	436.8	445.6	430.3
77.5°	161.6	255.5	360.4	321.1	318.9
80°	115.8	205.3	231.5	238.1	240.3
82.5°	76.4	155.1	150.7	155.1	152.9
85°	45.9	76.4	78.6	76.4	72.1
87.5°	21.8	28.4	21.8	19.7	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)