

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: P263715

Luminaire Tested: **24CZ-LD5-70-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263715  
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-LD5-70-RDP-UNV-L82765-W2A1-U-3000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4627.0 lumens  
Efficiency: N/A  
Efficacy: 86.8 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

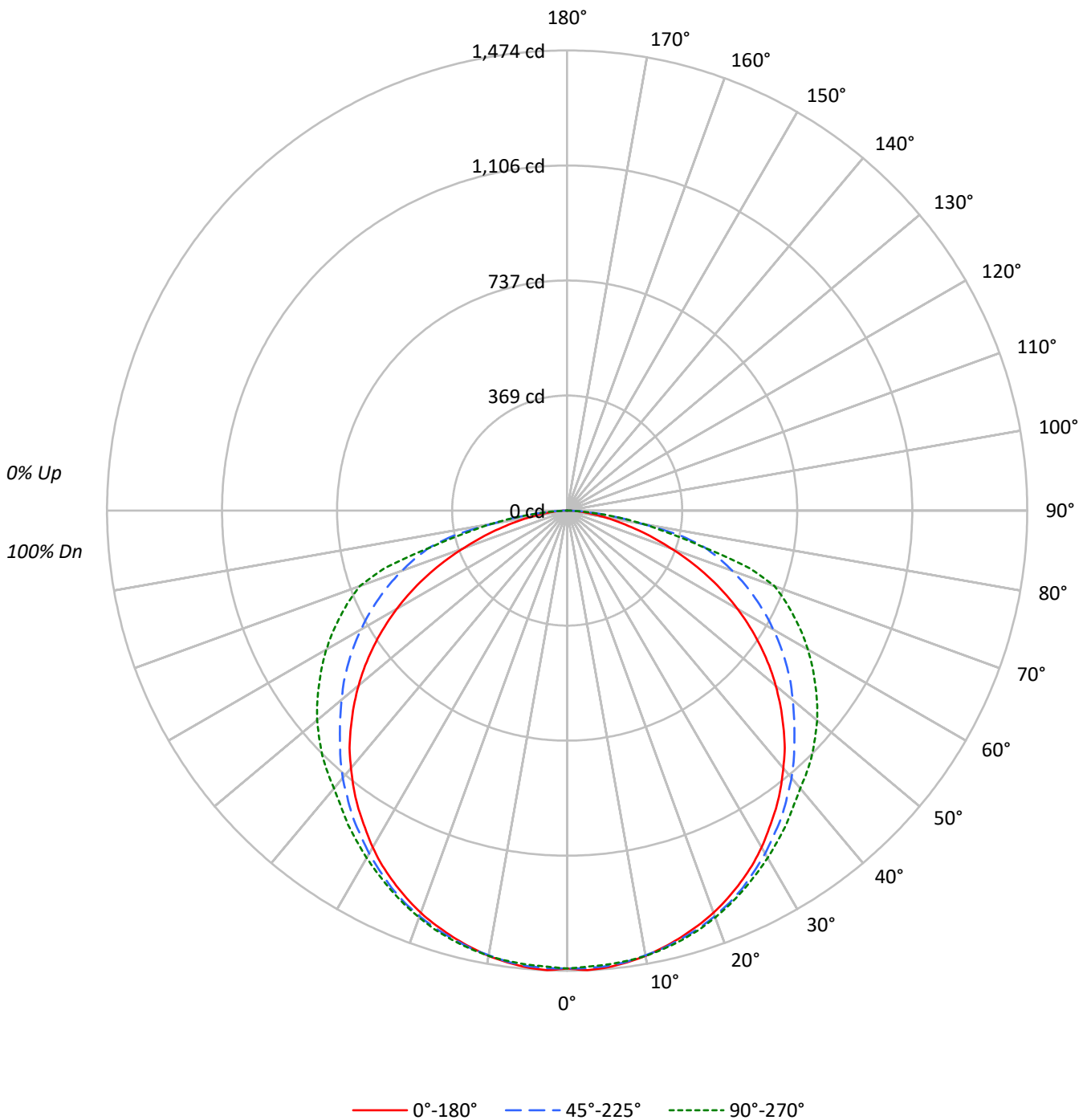
Input Watts (W): 53.289  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P263715

CATALOG NUMBER: 24CZ-LD5-70-RDP-UNV-L82765-W2A1-U-3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P263715

CATALOG NUMBER: 24CZ-LD5-70-RDP-UNV-L82765-W2A1-U-3000K

**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°	1974	1974	1974
5°	1984	1978	1972
10°	1979	1976	1979
15°	1970	1977	1983
20°	1963	1980	1986
25°	1951	1978	1988
30°	1936	1971	1996
35°	1915	1968	2013
40°	1892	1964	2040
45°	1864	1959	2111
50°	1826	1974	2188
55°	1774	2009	2276
60°	1698	2053	2397
65°	1581	2117	2552
70°	1398	2213	2778
75°	1172	2368	2333
80°	935	1870	1941
85°	738	1266	1161



TEST NUMBER: P263715

CATALOG NUMBER: 24CZ-LD5-70-RDP-UNV-L82765-W2A1-U-3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.1	3.0
10°-20°	400.4	8.7
20°-30°	611.6	13.2
30°-40°	747.7	16.2
40°-50°	800.3	17.3
50°-60°	767.6	16.6
60°-70°	648.2	14.0
70°-80°	414.2	9.0
80°-90°	98.0	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°	1151.1	24.9
0°-40°	1898.7	41.0
0°-60°	3466.6	74.9
0°-90°	4627.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4627.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1467	1467	1467	1467	1467	
5°	1469	1460	1464	1462	1460	140
15°	1414	1410	1419	1424	1424	399
25°	1314	1312	1332	1337	1339	606
35°	1166	1175	1198	1214	1225	729
45°	979	995	1030	1077	1109	755
55°	756	781	856	934	970	675
65°	496	544	665	758	802	490
75°	226	321	456	465	449	243
85°	48	80	82	80	75	57
90°	0	0	0	0	0	



TEST NUMBER: P263715

CATALOG NUMBER: 24CZ-LD5-70-RDP-UNV-L82765-W2A1-U-3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1466.8	1466.8	1466.8	1466.8	1466.8
2.5°	1473.6	1464.5	1466.8	1466.8	1462.2
5°	1469.1	1460.0	1464.5	1462.2	1460.0
7.5°	1460.0	1453.1	1457.7	1457.7	1455.4
10°	1448.6	1441.7	1446.3	1448.6	1448.6
12.5°	1432.6	1428.1	1434.9	1434.9	1437.2
15°	1414.4	1409.9	1419.0	1423.5	1423.5
17.5°	1393.9	1391.6	1403.0	1405.3	1407.6
20°	1371.1	1368.9	1382.5	1382.5	1387.1
22.5°	1343.8	1341.5	1359.7	1359.7	1364.3
25°	1314.2	1311.9	1332.4	1337.0	1339.3
27.5°	1282.3	1280.0	1300.5	1307.4	1311.9
30°	1245.9	1245.9	1268.6	1277.8	1284.6
32.5°	1204.9	1211.7	1232.2	1245.9	1255.0
35°	1166.1	1175.3	1198.0	1214.0	1225.4
37.5°	1122.9	1132.0	1157.0	1177.5	1191.2
40°	1077.3	1088.7	1118.3	1141.1	1161.6
42.5°	1031.8	1043.2	1075.0	1109.2	1136.5
45°	979.4	995.3	1029.5	1077.3	1109.2
47.5°	927.0	942.9	986.2	1045.4	1077.3
50°	872.3	890.6	942.9	1011.3	1045.4
52.5°	815.4	835.9	901.9	974.8	1009.0
55°	756.2	781.2	856.4	933.8	970.3
57.5°	694.7	722.0	810.8	892.8	931.6
60°	630.9	665.1	763.0	849.6	890.6
62.5°	564.9	605.9	715.2	804.0	847.3
65°	496.5	544.4	665.1	758.5	801.7
67.5°	425.9	489.7	615.0	712.9	756.2
70°	355.3	430.5	562.6	662.8	706.1
72.5°	289.3	375.8	510.2	603.6	612.7
75°	225.5	321.1	455.5	464.6	448.7
77.5°	168.5	266.5	375.8	334.8	332.5
80°	120.7	214.1	241.4	248.3	250.5
82.5°	79.7	161.7	157.2	161.7	159.4
85°	47.8	79.7	82.0	79.7	75.2
87.5°	22.8	29.6	22.8	20.5	18.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)