

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: P263540

Luminaire Tested: **24CZ-LD5-75-RDP-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263540  
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-L83050-W2A1-U-4500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5553.0 lumens  
Efficiency: N/A  
Efficacy: 90.6 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

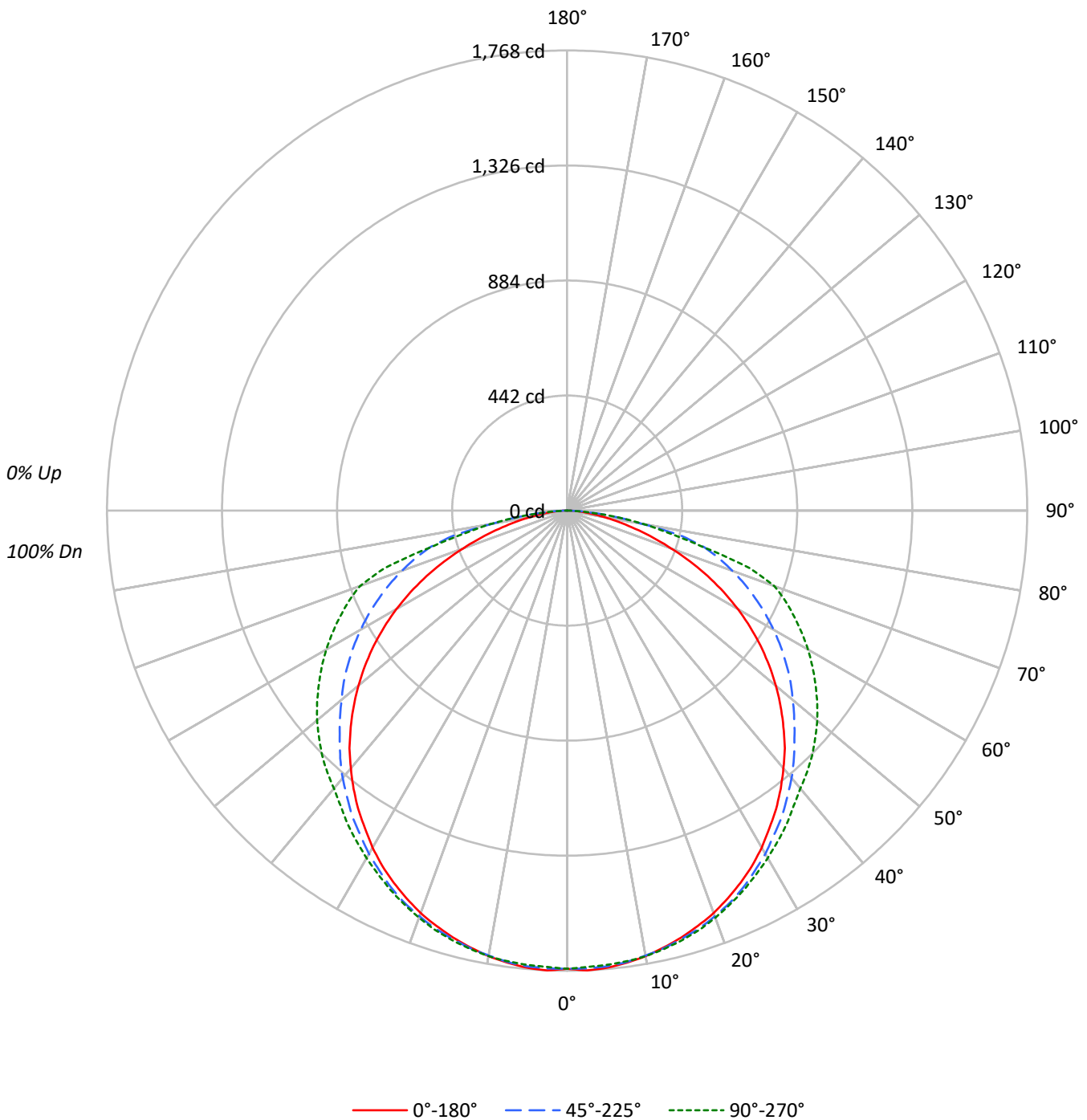
Input Watts (W): 61.265796  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**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°	2368	2368	2368
5°	2381	2374	2366
10°	2375	2371	2375
15°	2365	2372	2380
20°	2356	2376	2384
25°	2341	2374	2386
30°	2323	2365	2395
35°	2299	2362	2416
40°	2271	2357	2449
45°	2237	2351	2533
50°	2191	2369	2626
55°	2129	2411	2732
60°	2038	2464	2876
65°	1897	2541	3063
70°	1677	2656	3334
75°	1407	2842	2799
80°	1123	2245	2330
85°	886	1519	1392



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.0	3.0
10°-20°	480.5	8.7
20°-30°	733.9	13.2
30°-40°	897.3	16.2
40°-50°	960.5	17.3
50°-60°	921.3	16.6
60°-70°	777.9	14.0
70°-80°	497.1	9.0
80°-90°	117.6	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°	1381.4	24.9
0°-40°	2278.7	41.0
0°-60°	4160.4	74.9
0°-90°	5553.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5553.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1760	1760	1760	1760	1760	
5°	1763	1752	1758	1755	1752	167
15°	1698	1692	1703	1708	1708	479
25°	1577	1574	1599	1604	1607	727
35°	1400	1410	1438	1457	1471	875
45°	1175	1194	1236	1293	1331	907
55°	908	938	1028	1121	1164	810
65°	596	653	798	910	962	588
75°	271	385	547	558	538	291
85°	57	96	98	96	90	69
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1760.3	1760.3	1760.3	1760.3	1760.3
2.5°	1768.5	1757.6	1760.3	1760.3	1754.9
5°	1763.1	1752.1	1757.6	1754.9	1752.1
7.5°	1752.1	1743.9	1749.4	1749.4	1746.7
10°	1738.5	1730.3	1735.7	1738.5	1738.5
12.5°	1719.3	1713.9	1722.1	1722.1	1724.8
15°	1697.5	1692.0	1702.9	1708.4	1708.4
17.5°	1672.9	1670.1	1683.8	1686.5	1689.3
20°	1645.5	1642.8	1659.2	1659.2	1664.7
22.5°	1612.7	1610.0	1631.9	1631.9	1637.3
25°	1577.2	1574.5	1599.1	1604.5	1607.3
27.5°	1538.9	1536.2	1560.8	1569.0	1574.5
30°	1495.2	1495.2	1522.5	1533.5	1541.7
32.5°	1446.0	1454.2	1478.8	1495.2	1506.1
35°	1399.5	1410.5	1437.8	1456.9	1470.6
37.5°	1347.6	1358.5	1388.6	1413.2	1429.6
40°	1292.9	1306.6	1342.1	1369.5	1394.1
42.5°	1238.3	1251.9	1290.2	1331.2	1364.0
45°	1175.4	1194.5	1235.5	1292.9	1331.2
47.5°	1112.5	1131.7	1183.6	1254.7	1292.9
50°	1046.9	1068.8	1131.7	1213.7	1254.7
52.5°	978.6	1003.2	1082.4	1169.9	1210.9
55°	907.5	937.6	1027.8	1120.7	1164.5
57.5°	833.7	866.5	973.1	1071.5	1118.0
60°	757.2	798.2	915.7	1019.6	1068.8
62.5°	677.9	727.1	858.3	964.9	1016.8
65°	595.9	653.3	798.2	910.2	962.2
67.5°	511.2	587.7	738.0	855.6	907.5
70°	426.4	516.6	675.2	795.4	847.4
72.5°	347.1	451.0	612.3	724.4	735.3
75°	270.6	385.4	546.7	557.6	538.5
77.5°	202.3	319.8	451.0	401.8	399.1
80°	144.9	256.9	289.7	297.9	300.7
82.5°	95.7	194.1	188.6	194.1	191.3
85°	57.4	95.7	98.4	95.7	90.2
87.5°	27.3	35.5	27.3	24.6	21.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)