

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: P260739

Luminaire Tested: **24CZ-LD5-50-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260739  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ-LD5-50-UNV-L82765-W2A1-U-3000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4745.0 lumens  
Efficiency: N/A  
Efficacy: 133.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

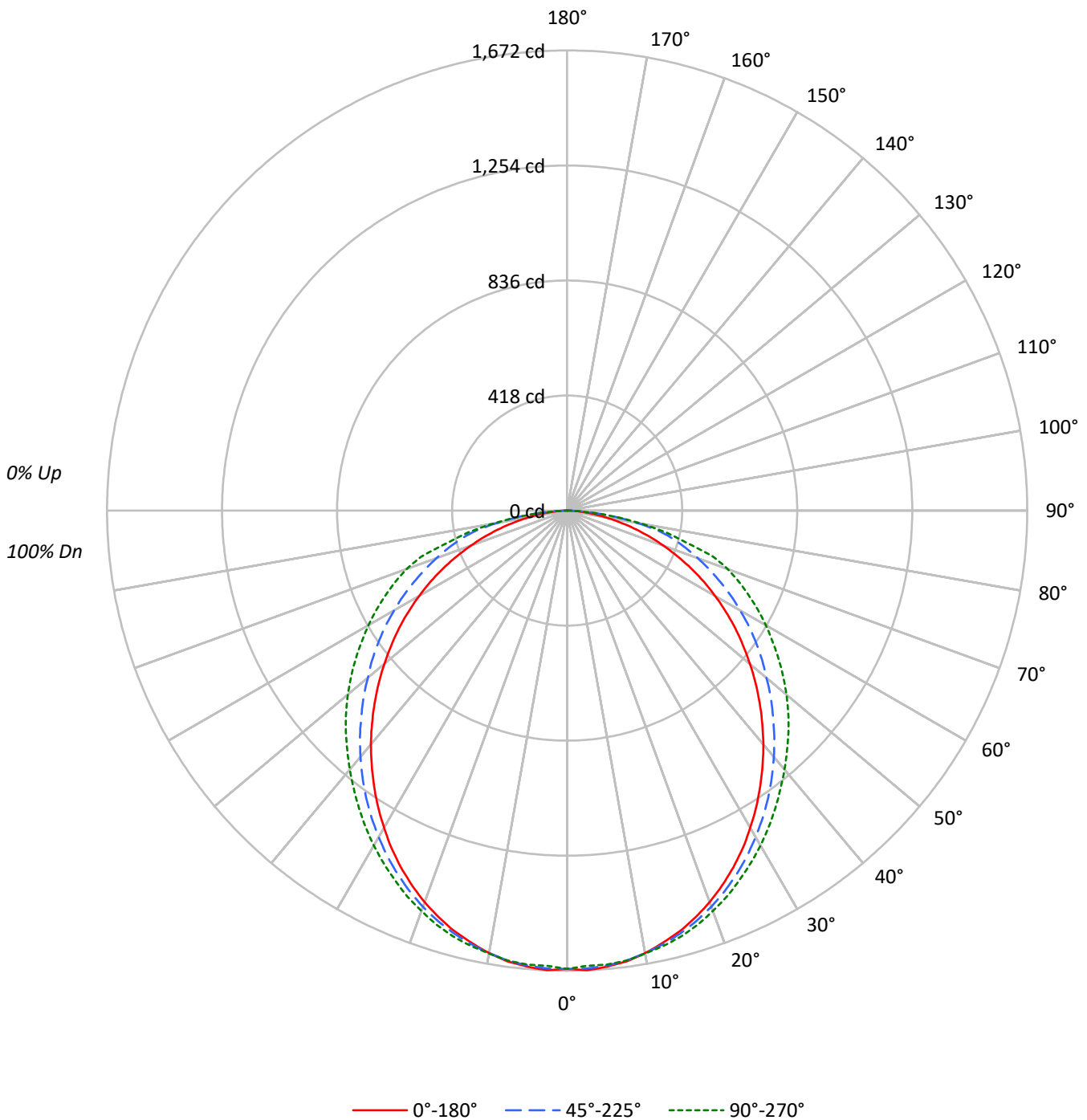
Input Watts (W): 35.433  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

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

	0°	45°	90°
0°	2241	2241	2241
5°	2247	2240	2236
10°	2231	2231	2233
15°	2204	2215	2231
20°	2168	2194	2217
25°	2123	2163	2200
30°	2067	2128	2183
35°	2009	2092	2167
40°	1949	2052	2157
45°	1883	2012	2164
50°	1816	1979	2177
55°	1749	1966	2199
60°	1670	1954	2243
65°	1583	1955	2317
70°	1463	1988	2441
75°	1309	2078	2323
80°	1095	1989	2128
85°	827	1530	1454



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.4	3.3
10°-20°	447.9	9.4
20°-30°	669.5	14.1
30°-40°	794.3	16.7
40°-50°	817.5	17.2
50°-60°	750.0	15.8
60°-70°	606.4	12.8
70°-80°	393.5	8.3
80°-90°	108.5	2.3
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°	1274.8	26.9
0°-40°	2069.1	43.6
0°-60°	3636.5	76.6
0°-90°	4745.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4745.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1665	1665	1665	1665	1665	
5°	1664	1652	1659	1657	1656	158
15°	1582	1576	1590	1597	1602	446
25°	1430	1431	1457	1470	1482	658
35°	1223	1233	1274	1301	1319	765
45°	989	1006	1058	1108	1137	764
55°	746	768	838	906	937	666
65°	497	526	614	695	728	491
75°	252	299	400	447	447	268
85°	54	91	99	96	94	66
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1665.2	1665.2	1665.2	1665.2	1665.2
2.5°	1671.7	1658.7	1665.2	1663.6	1655.5
5°	1663.6	1652.3	1658.7	1657.1	1655.5
7.5°	1652.3	1640.9	1649.0	1647.4	1649.0
10°	1632.8	1623.0	1632.8	1634.4	1634.4
12.5°	1608.4	1600.3	1613.3	1616.5	1619.8
15°	1582.4	1575.9	1590.5	1597.0	1601.9
17.5°	1549.9	1545.0	1562.9	1571.0	1577.5
20°	1514.2	1512.5	1532.0	1540.2	1548.3
22.5°	1473.5	1473.5	1496.3	1506.0	1517.4
25°	1429.7	1431.3	1457.3	1470.3	1481.7
27.5°	1382.6	1384.2	1415.1	1431.3	1444.3
30°	1330.6	1337.1	1369.6	1390.7	1405.3
32.5°	1278.6	1286.7	1322.5	1346.8	1363.1
35°	1223.3	1233.1	1273.7	1301.3	1319.2
37.5°	1166.5	1177.9	1221.7	1252.6	1273.7
40°	1109.6	1122.6	1168.1	1203.9	1228.2
42.5°	1049.5	1064.1	1114.5	1156.7	1182.7
45°	989.4	1005.6	1057.6	1108.0	1137.2
47.5°	929.3	948.8	1004.0	1059.3	1090.1
50°	867.6	887.0	945.5	1008.9	1039.8
52.5°	805.8	828.6	893.5	958.5	989.4
55°	745.7	768.5	838.3	906.5	937.4
57.5°	684.0	706.7	783.1	854.6	885.4
60°	620.6	646.6	726.2	799.3	833.4
62.5°	558.9	586.5	671.0	749.0	781.4
65°	497.1	526.4	614.1	695.3	727.8
67.5°	433.8	467.9	558.9	641.7	675.8
70°	372.0	409.4	505.3	588.1	620.6
72.5°	311.9	352.5	451.6	536.1	555.6
75°	251.8	298.9	399.7	446.8	446.8
77.5°	195.0	246.9	341.2	359.0	368.8
80°	141.3	198.2	256.7	277.8	274.6
82.5°	94.2	151.1	183.6	183.6	178.7
85°	53.6	91.0	99.1	95.9	94.2
87.5°	22.7	34.1	30.9	24.4	21.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)