

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: P261363

Luminaire Tested: **24CZ-LD5-35SE-S-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P261363  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ-LD5-35SE-S-UNV-L92765-W2A1-U-5700K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH SMOOTH LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3420.0 lumens  
Efficiency: N/A  
Efficacy: 127.2 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

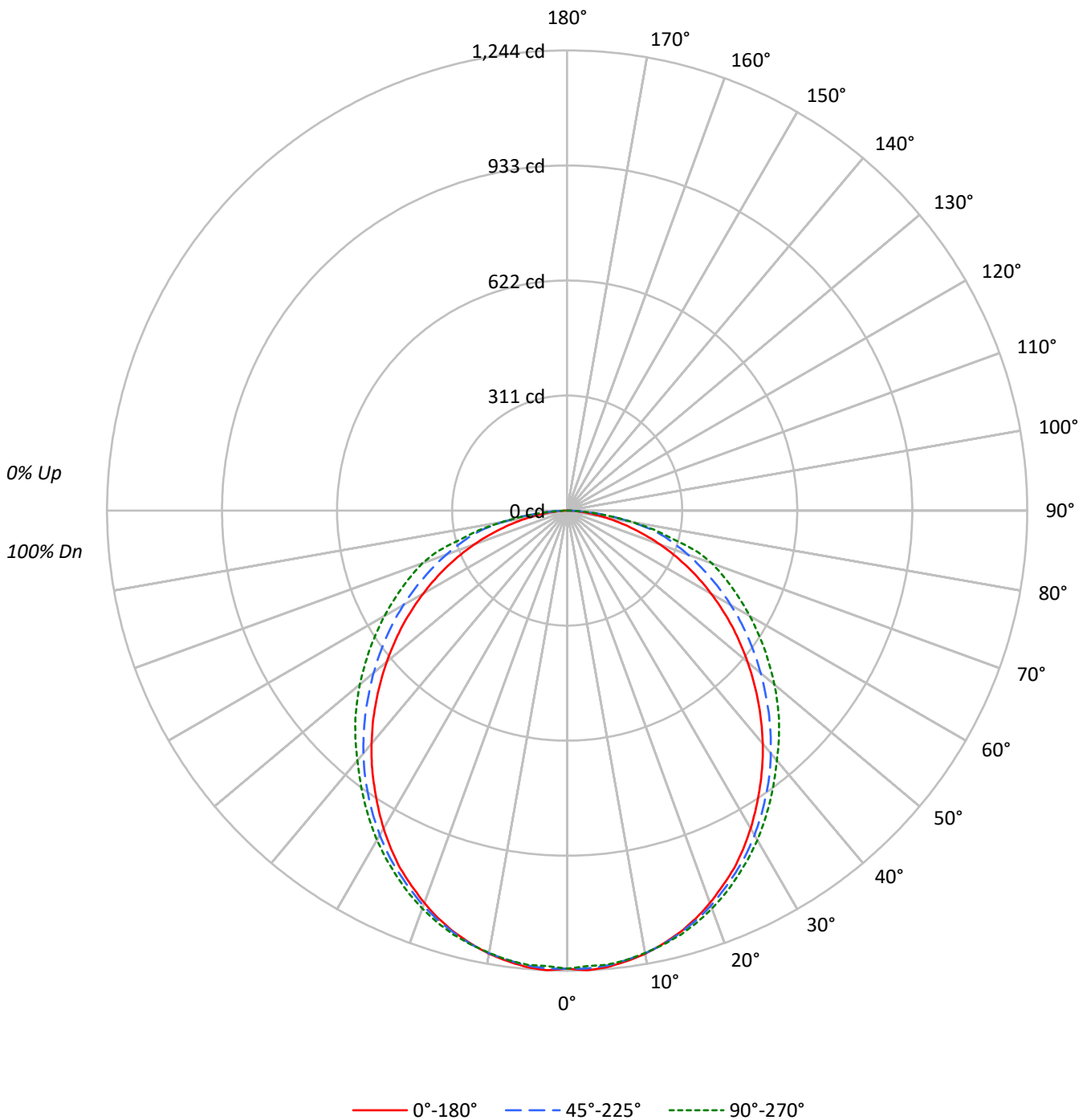
Input Watts (W): 26.877  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

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

	0°	45°	90°
0°	1666	1666	1666
5°	1674	1668	1665
10°	1662	1660	1659
15°	1644	1647	1653
20°	1616	1628	1639
25°	1585	1602	1618
30°	1542	1574	1598
35°	1493	1540	1572
40°	1445	1505	1549
45°	1390	1466	1542
50°	1334	1429	1532
55°	1276	1399	1527
60°	1210	1375	1534
65°	1138	1358	1565
70°	1048	1365	1638
75°	929	1414	1526
80°	776	1340	1375
85°	580	1071	983



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.1	3.4
10°-20°	332.9	9.7
20°-30°	496.1	14.5
30°-40°	584.0	17.1
40°-50°	593.5	17.4
50°-60°	533.6	15.6
60°-70°	421.5	12.3
70°-80°	267.4	7.8
80°-90°	73.8	2.2
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°	946.1	27.7
0°-40°	1530.1	44.7
0°-60°	2657.2	77.7
0°-90°	3420.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3420.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1238	1238	1238	1238	1238	
5°	1239	1229	1235	1232	1232	118
15°	1180	1174	1182	1186	1187	332
25°	1067	1066	1079	1086	1090	491
35°	909	915	938	948	957	569
45°	731	741	770	793	810	564
55°	544	558	596	635	651	486
65°	357	376	427	473	492	354
75°	179	209	272	296	294	190
85°	38	65	69	64	64	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1238.1	1238.1	1238.1	1238.1	1238.1
2.5°	1243.8	1234.7	1239.2	1237.0	1232.4
5°	1239.2	1229.0	1234.7	1232.4	1232.4
7.5°	1229.0	1221.0	1225.6	1224.4	1225.6
10°	1216.5	1208.5	1215.3	1215.3	1214.2
12.5°	1199.4	1192.6	1200.6	1200.6	1201.7
15°	1180.1	1174.4	1182.3	1185.8	1186.9
17.5°	1156.2	1150.5	1160.7	1164.1	1167.5
20°	1128.9	1126.6	1136.8	1140.2	1144.8
22.5°	1098.1	1098.1	1108.4	1112.9	1119.8
25°	1067.4	1066.3	1078.8	1085.6	1090.2
27.5°	1031.0	1032.1	1048.1	1054.9	1060.6
30°	992.3	994.6	1012.8	1020.8	1028.7
32.5°	951.3	955.9	976.4	985.5	993.4
35°	909.2	914.9	937.7	947.9	957.0
37.5°	867.1	875.1	899.0	909.2	919.5
40°	822.7	829.6	856.9	869.4	881.9
42.5°	777.2	786.3	813.6	831.9	846.6
45°	730.6	740.8	770.4	793.2	810.2
47.5°	683.9	697.6	726.0	756.7	771.5
50°	637.3	650.9	682.8	716.9	731.7
52.5°	589.5	603.1	639.5	674.8	690.7
55°	543.9	557.6	596.3	635.0	650.9
57.5°	496.2	510.9	554.2	594.0	609.9
60°	449.5	464.3	510.9	553.0	570.1
62.5°	404.0	419.9	468.8	513.2	530.3
65°	357.3	375.5	426.7	473.4	491.6
67.5°	311.8	332.3	385.8	434.7	454.0
70°	266.3	290.2	347.1	397.1	416.5
72.5°	221.9	248.1	308.4	358.5	368.7
75°	178.7	209.4	272.0	295.9	293.6
77.5°	137.7	171.8	231.0	235.6	242.4
80°	100.1	137.7	173.0	182.1	177.5
82.5°	66.0	103.6	124.0	119.5	118.3
85°	37.6	64.9	69.4	63.7	63.7
87.5°	15.9	26.2	22.8	17.1	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)