

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: P260712

Luminaire Tested: **24CZ-LD5-35-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260712  
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-LD5-35-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: 3322.0 lumens  
Efficiency: N/A  
Efficacy: 138.5 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

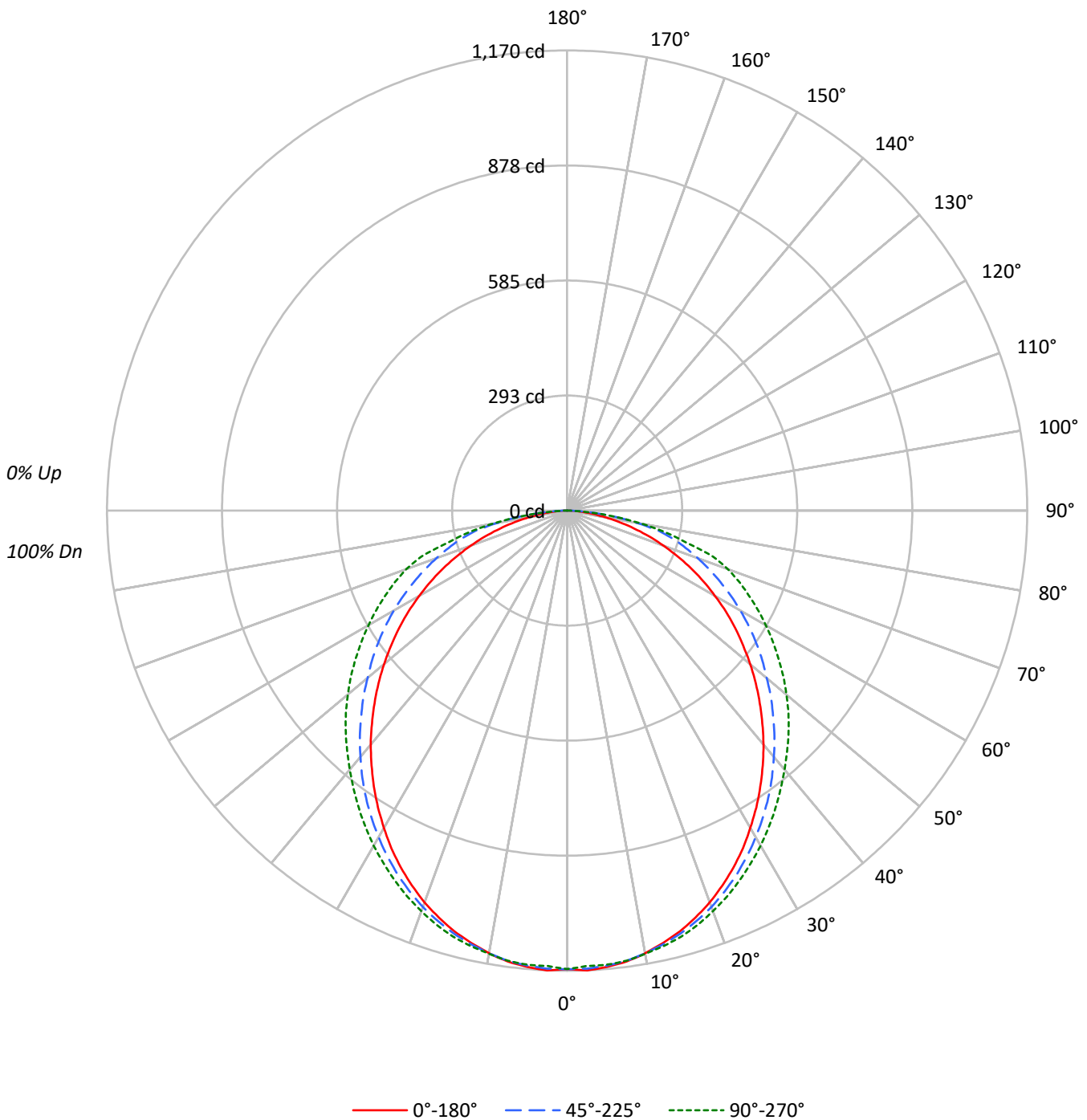
Input Watts (W): 23.994  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1569	1569	1569
5°	1573	1568	1565
10°	1562	1562	1563
15°	1543	1551	1562
20°	1518	1536	1552
25°	1486	1515	1540
30°	1447	1490	1529
35°	1407	1465	1517
40°	1365	1436	1510
45°	1318	1409	1515
50°	1271	1386	1524
55°	1225	1377	1540
60°	1169	1368	1570
65°	1108	1369	1622
70°	1025	1391	1709
75°	917	1455	1626
80°	767	1392	1489
85°	579	1071	1019



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.2	3.3
10°-20°	313.6	9.4
20°-30°	468.8	14.1
30°-40°	556.1	16.7
40°-50°	572.4	17.2
50°-60°	525.1	15.8
60°-70°	424.5	12.8
70°-80°	275.5	8.3
80°-90°	76.0	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°	892.5	26.9
0°-40°	1448.6	43.6
0°-60°	2546.0	76.6
0°-90°	3322.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3322.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1166	1166	1166	1166	1166	
5°	1165	1157	1161	1160	1159	111
15°	1108	1103	1114	1118	1122	312
25°	1001	1002	1020	1029	1037	461
35°	856	863	892	911	924	536
45°	693	704	740	776	796	535
55°	522	538	587	635	656	466
65°	348	368	430	487	510	344
75°	176	209	280	313	313	187
85°	38	64	69	67	66	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1165.8	1165.8	1165.8	1165.8	1165.8
2.5°	1170.4	1161.3	1165.8	1164.7	1159.0
5°	1164.7	1156.7	1161.3	1160.2	1159.0
7.5°	1156.7	1148.8	1154.5	1153.3	1154.5
10°	1143.1	1136.3	1143.1	1144.2	1144.2
12.5°	1126.0	1120.4	1129.5	1131.7	1134.0
15°	1107.8	1103.3	1113.5	1118.1	1121.5
17.5°	1085.1	1081.7	1094.2	1099.9	1104.4
20°	1060.1	1058.9	1072.6	1078.3	1084.0
22.5°	1031.6	1031.6	1047.6	1054.4	1062.3
25°	1000.9	1002.1	1020.3	1029.4	1037.3
27.5°	967.9	969.1	990.7	1002.1	1011.2
30°	931.5	936.1	958.8	973.6	983.9
32.5°	895.1	900.8	925.9	942.9	954.3
35°	856.5	863.3	891.7	911.1	923.6
37.5°	816.7	824.6	855.3	876.9	891.7
40°	776.9	786.0	817.8	842.8	859.9
42.5°	734.8	745.0	780.3	809.8	828.0
45°	692.7	704.1	740.5	775.7	796.2
47.5°	650.6	664.2	702.9	741.6	763.2
50°	607.4	621.0	662.0	706.3	727.9
52.5°	564.2	580.1	625.6	671.1	692.7
55°	522.1	538.0	586.9	634.7	656.3
57.5°	478.9	494.8	548.2	598.3	619.9
60°	434.5	452.7	508.4	559.6	583.5
62.5°	391.3	410.6	469.8	524.3	547.1
65°	348.0	368.5	429.9	486.8	509.6
67.5°	303.7	327.6	391.3	449.3	473.2
70°	260.5	286.6	353.7	411.7	434.5
72.5°	218.4	246.8	316.2	375.3	389.0
75°	176.3	209.3	279.8	312.8	312.8
77.5°	136.5	172.9	238.9	251.4	258.2
80°	99.0	138.8	179.7	194.5	192.2
82.5°	66.0	105.8	128.5	128.5	125.1
85°	37.5	63.7	69.4	67.1	66.0
87.5°	15.9	23.9	21.6	17.1	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)