

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: P259487

Luminaire Tested: **22CZ-LD5-44-S-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P259487  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25712)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ-LD5-44-S-UNV-L82765-W2A1-U-5500K  
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4686.0 lumens  
Efficiency: N/A  
Efficacy: 131.9 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

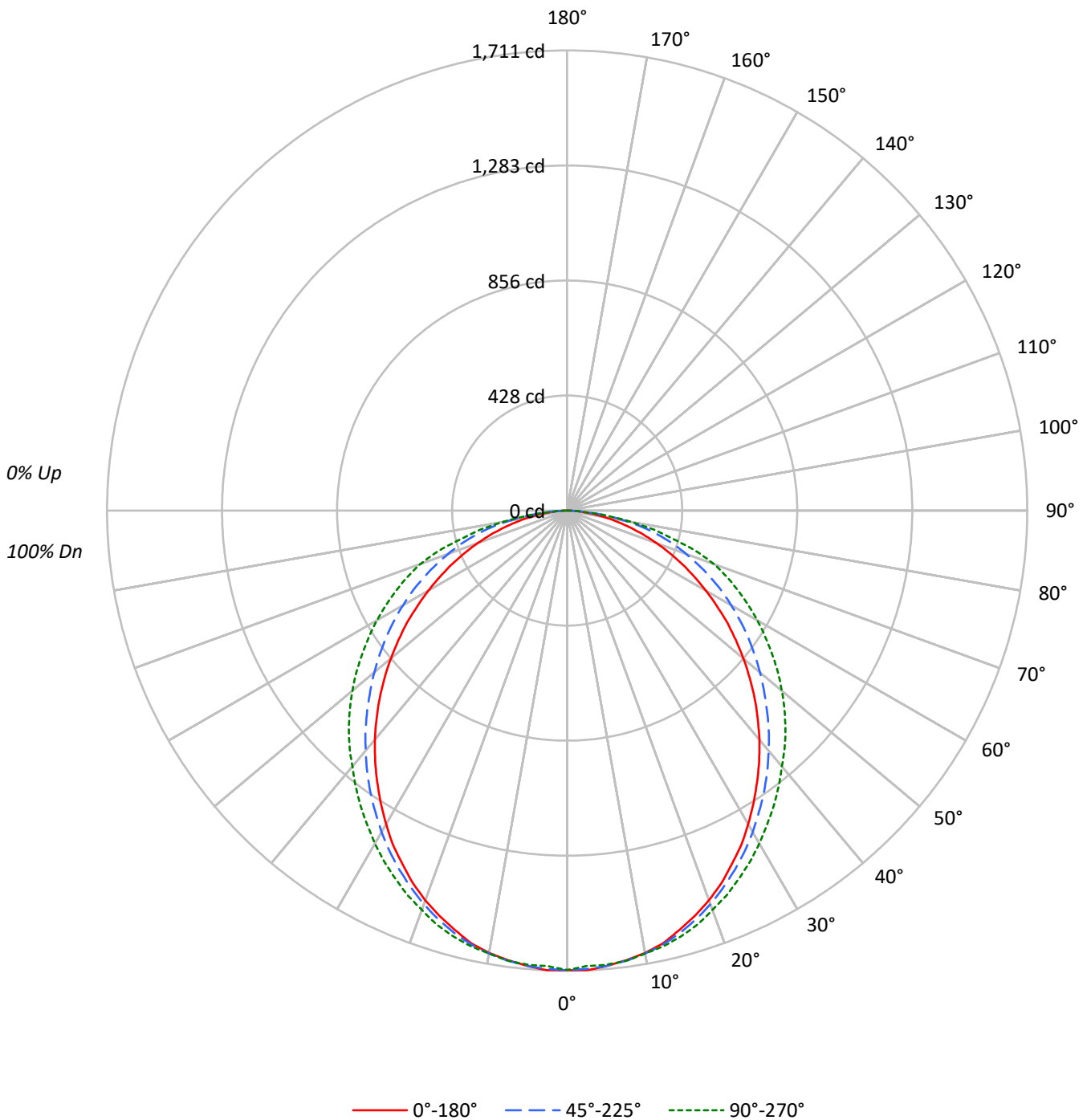
Input Watts (W): 35.526  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60	58
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	56	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	36	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	34	29	39	33	29	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24

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

	0°	45°	90°
0°	4597	4597	4597
5°	4590	4590	4578
10°	4564	4570	4570
15°	4496	4527	4565
20°	4415	4460	4525
25°	4304	4377	4484
30°	4182	4287	4441
35°	4045	4192	4399
40°	3906	4096	4364
45°	3752	4000	4368
50°	3581	3920	4363
55°	3411	3854	4361
60°	3210	3792	4397
65°	3010	3740	4457
70°	2781	3701	4569
75°	2504	3674	4236
80°	2197	3419	3698
85°	1806	2572	2294



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.3	3.4
10°-20°	458.3	9.8
20°-30°	680.7	14.5
30°-40°	801.2	17.1
40°-50°	816.8	17.4
50°-60°	736.7	15.7
60°-70°	580.3	12.4
70°-80°	357.9	7.6
80°-90°	92.9	2.0
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°	1300.2	27.7
0°-40°	2101.4	44.8
0°-60°	3654.9	78.0
0°-90°	4686.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4686.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1708	1708	1708	1708	1708	
5°	1699	1702	1699	1697	1695	161
15°	1614	1620	1625	1634	1639	455
25°	1450	1458	1474	1499	1510	668
35°	1231	1245	1276	1317	1339	770
45°	986	1002	1051	1114	1148	760
55°	727	752	822	896	930	649
65°	473	506	587	662	700	468
75°	241	281	353	394	407	257
85°	58	74	83	79	74	69
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1708.3	1708.3	1708.3	1708.3	1708.3
2.5°	1710.6	1710.6	1706.1	1701.6	1694.8
5°	1699.3	1701.6	1699.3	1697.1	1694.8
7.5°	1685.8	1688.1	1688.1	1688.1	1688.1
10°	1670.1	1672.3	1672.3	1672.3	1672.3
12.5°	1647.6	1649.8	1652.1	1654.3	1658.8
15°	1613.8	1620.5	1625.0	1634.0	1638.6
17.5°	1580.0	1586.8	1593.5	1604.8	1613.8
20°	1541.8	1546.3	1557.5	1571.0	1580.0
22.5°	1499.0	1505.8	1517.0	1535.0	1548.5
25°	1449.5	1458.5	1474.2	1499.0	1510.3
27.5°	1402.2	1409.0	1429.2	1456.2	1472.0
30°	1346.0	1355.0	1379.7	1413.5	1429.2
32.5°	1289.7	1300.9	1327.9	1366.2	1384.2
35°	1231.2	1244.7	1276.2	1316.7	1339.2
37.5°	1172.6	1186.1	1222.2	1267.2	1291.9
40°	1111.9	1125.4	1165.9	1215.4	1242.4
42.5°	1048.9	1064.6	1109.6	1165.9	1197.4
45°	985.8	1001.6	1051.1	1114.1	1147.9
47.5°	920.6	938.6	992.6	1062.4	1096.1
50°	855.3	875.5	936.3	1008.3	1042.1
52.5°	790.0	812.5	877.8	952.1	988.1
55°	727.0	751.8	821.5	895.8	929.6
57.5°	659.5	688.7	763.0	835.0	873.3
60°	596.5	628.0	704.5	776.5	817.0
62.5°	533.4	567.2	648.2	720.2	758.5
65°	472.7	506.4	587.4	661.7	700.0
67.5°	411.9	450.2	528.9	603.2	641.5
70°	353.4	393.9	470.4	542.4	580.7
72.5°	297.1	337.6	414.1	481.7	504.2
75°	240.8	281.3	353.4	393.9	407.4
77.5°	189.1	227.3	290.3	315.1	333.1
80°	141.8	175.6	220.6	236.3	238.6
82.5°	96.8	126.0	153.1	155.3	153.1
85°	58.5	74.3	83.3	78.8	74.3
87.5°	27.0	29.3	27.0	18.0	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)