

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: P260494

Luminaire Tested: **22CZ-LD5-44-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260494  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25714)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ-LD5-44-RDP-UNV-L82765-W2A1-U-5000K  
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3353.0 lumens  
Efficiency: N/A  
Efficacy: 94.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

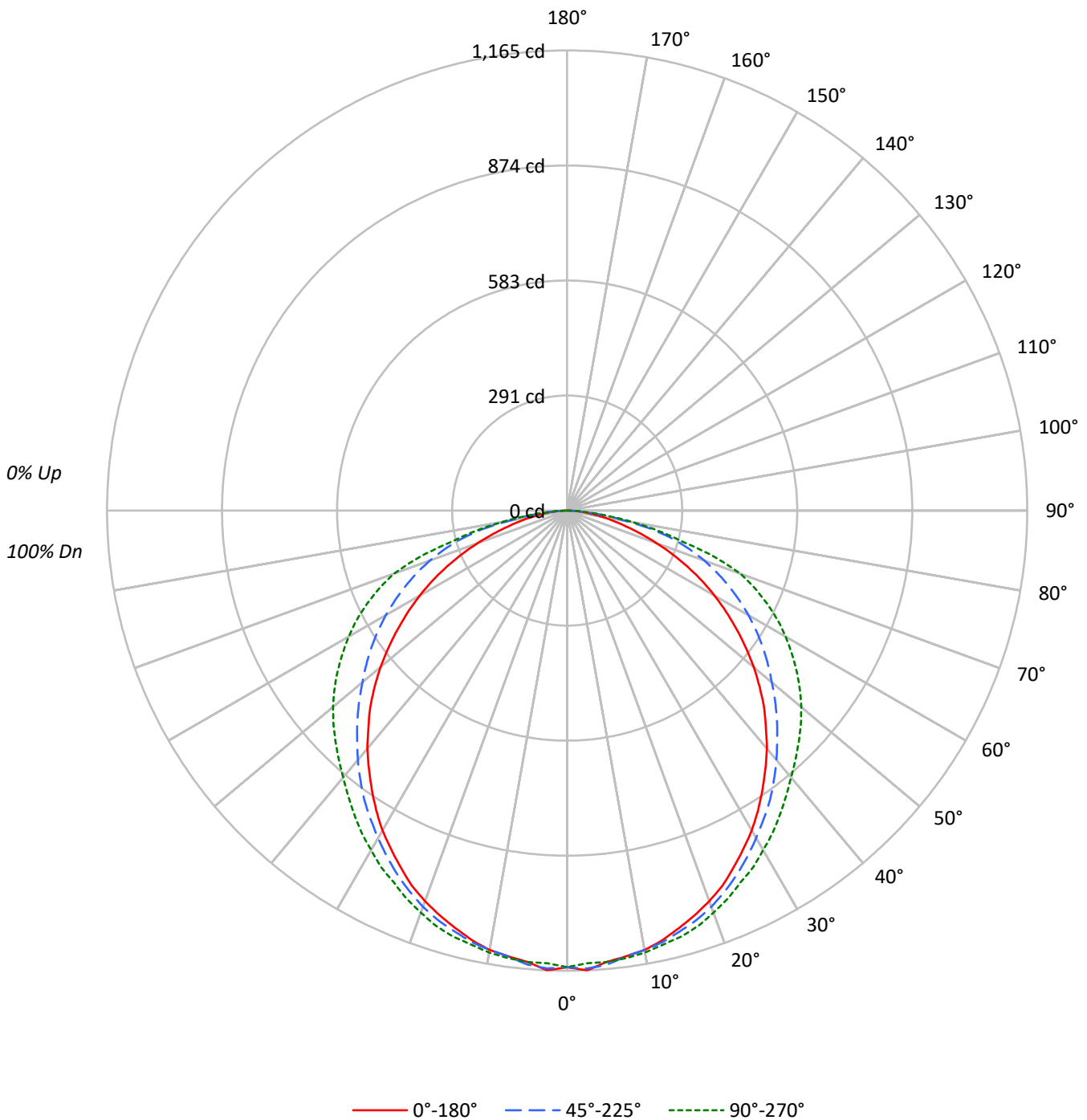
Input Watts (W): 35.433  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	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	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23

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

	0°	45°	90°
0°	3111	3111	3111
5°	3099	3117	3099
10°	3086	3086	3104
15°	3048	3073	3110
20°	3013	3057	3101
25°	2960	3019	3084
30°	2905	2974	3084
35°	2832	2941	3086
40°	2764	2896	3098
45°	2683	2860	3154
50°	2582	2832	3239
55°	2457	2841	3329
60°	2320	2855	3438
65°	2139	2871	3561
70°	1895	2904	3670
75°	1608	2896	3125
80°	1336	2329	2603
85°	1161	1568	1501



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.2	3.3
10°-20°	311.5	9.3
20°-30°	468.7	14.0
30°-40°	561.7	16.8
40°-50°	585.7	17.5
50°-60°	545.3	16.3
60°-70°	442.8	13.2
70°-80°	266.8	8.0
80°-90°	61.2	1.8
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°	889.4	26.5
0°-40°	1451.1	43.3
0°-60°	2582.2	77.0
0°-90°	3353.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3353.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1156	1156	1156	1156	1156	
5°	1147	1147	1154	1156	1147	109
15°	1094	1098	1103	1110	1116	309
25°	997	1004	1017	1030	1039	459
35°	862	873	895	922	939	540
45°	705	718	752	800	829	543
55°	524	546	606	672	710	468
65°	336	371	451	522	559	332
75°	155	206	278	296	301	167
85°	38	46	51	49	49	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1156.0	1156.0	1156.0	1156.0	1156.0
2.5°	1164.8	1162.6	1160.4	1153.8	1147.1
5°	1147.1	1147.1	1153.8	1156.0	1147.1
7.5°	1138.3	1138.3	1138.3	1147.1	1142.7
10°	1129.5	1129.5	1129.5	1136.1	1136.1
12.5°	1114.0	1116.2	1118.4	1120.6	1125.0
15°	1094.1	1098.5	1102.9	1109.6	1116.2
17.5°	1074.2	1078.6	1087.5	1094.1	1102.9
20°	1052.1	1056.5	1067.6	1074.2	1083.0
22.5°	1027.8	1030.0	1043.3	1052.1	1063.2
25°	996.8	1003.5	1016.7	1030.0	1038.8
27.5°	965.9	972.5	988.0	1005.7	1018.9
30°	935.0	941.6	957.1	979.2	992.4
32.5°	899.6	908.4	926.1	952.6	968.1
35°	862.0	873.1	895.2	921.7	939.4
37.5°	824.4	835.5	859.8	893.0	910.6
40°	786.9	797.9	824.4	859.8	881.9
42.5°	744.9	758.1	786.9	828.9	855.4
45°	705.1	718.3	751.5	800.1	828.9
47.5°	660.9	676.4	713.9	769.2	802.3
50°	616.7	634.4	676.4	738.2	773.6
52.5°	570.3	590.2	641.0	705.1	742.7
55°	523.8	545.9	605.6	671.9	709.5
57.5°	477.4	501.7	568.0	636.6	674.1
60°	431.0	457.5	530.5	601.2	638.8
62.5°	384.6	413.3	490.7	561.4	601.2
65°	336.0	371.3	450.9	521.6	559.2
67.5°	287.3	329.3	411.1	479.6	515.0
70°	240.9	287.3	369.1	433.2	466.4
72.5°	196.7	245.3	324.9	380.2	393.4
75°	154.7	205.6	278.5	296.2	300.6
77.5°	119.4	165.8	221.0	225.5	236.5
80°	86.2	126.0	150.3	163.6	168.0
82.5°	59.7	86.2	99.5	101.7	103.9
85°	37.6	46.4	50.8	48.6	48.6
87.5°	19.9	17.7	15.5	11.1	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)