

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: P260495

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260495  
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-5500K  
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3386.0 lumens  
Efficiency: N/A  
Efficacy: 95.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

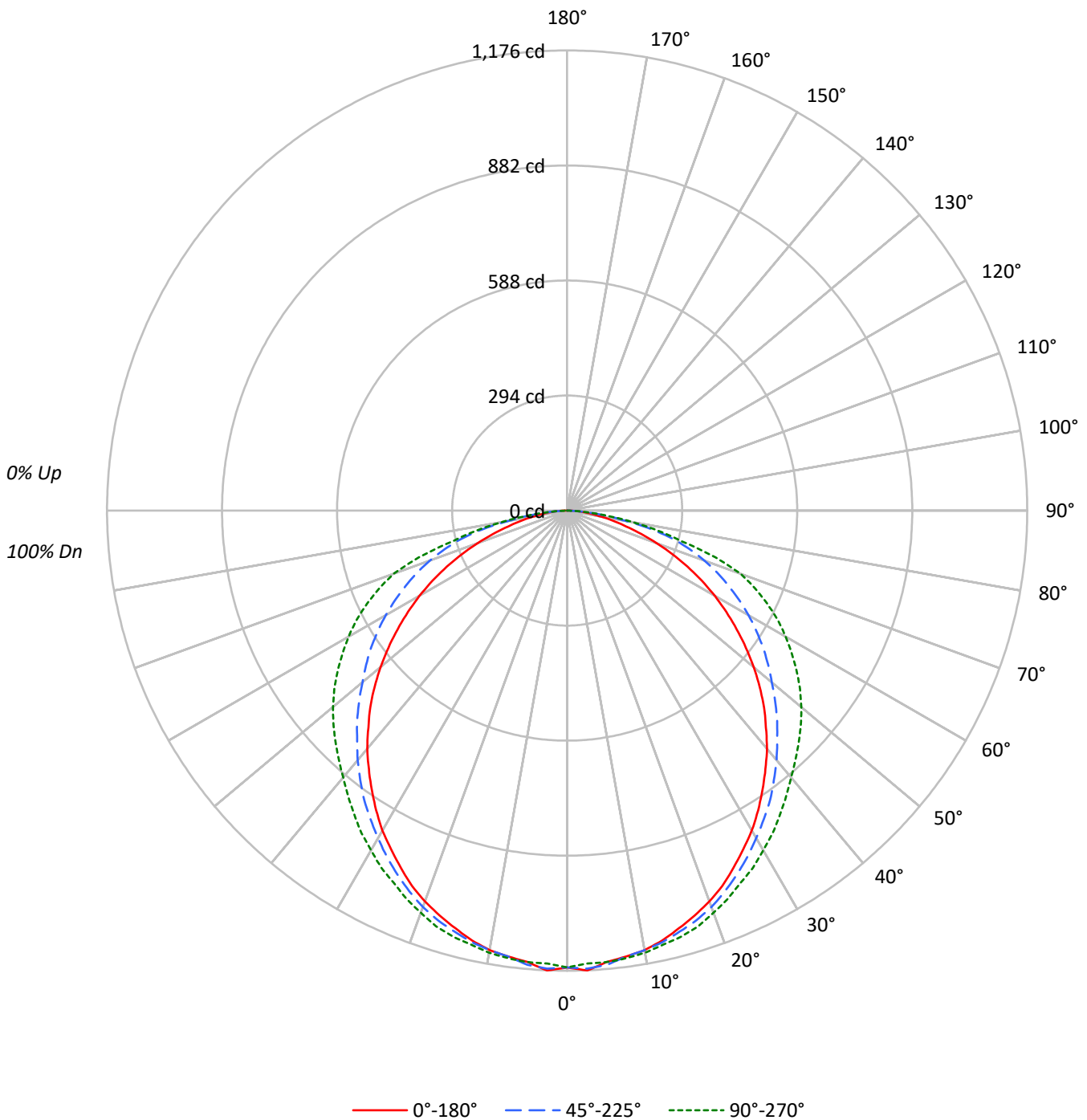
Input Watts (W): 35.526  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P260495

CATALOG NUMBER: 22CZ-LD5-44-RDP-UNV-L82765-W2A1-U-5500K

### Luminous Intensity Polar Plot





TEST NUMBER: P260495

CATALOG NUMBER: 22CZ-LD5-44-RDP-UNV-L82765-W2A1-U-5500K

**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°	3141	3141	3141
5°	3129	3147	3129
10°	3117	3117	3135
15°	3078	3103	3140
20°	3043	3087	3132
25°	2989	3048	3115
30°	2934	3003	3114
35°	2860	2970	3116
40°	2791	2925	3129
45°	2710	2888	3185
50°	2607	2859	3270
55°	2482	2869	3362
60°	2343	2883	3472
65°	2160	2899	3596
70°	1914	2933	3706
75°	1624	2924	3157
80°	1350	2352	2628
85°	1170	1584	1516



TEST NUMBER: P260495

CATALOG NUMBER: 22CZ-LD5-44-RDP-UNV-L82765-W2A1-U-5500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.3	3.3
10°-20°	314.6	9.3
20°-30°	473.3	14.0
30°-40°	567.2	16.8
40°-50°	591.5	17.5
50°-60°	550.7	16.3
60°-70°	447.2	13.2
70°-80°	269.5	8.0
80°-90°	61.8	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°	898.2	26.5
0°-40°	1465.4	43.3
0°-60°	2607.6	77.0
0°-90°	3386.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3386.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1167	1167	1167	1167	1167	
5°	1158	1158	1165	1167	1158	110
15°	1105	1109	1114	1120	1127	312
25°	1007	1013	1027	1040	1049	464
35°	870	882	904	931	949	545
45°	712	725	759	808	837	548
55°	529	551	612	678	716	473
65°	339	375	455	527	565	336
75°	156	208	281	299	304	169
85°	38	47	51	49	49	44
90°	0	0	0	0	0	



TEST NUMBER: P260495

CATALOG NUMBER: 22CZ-LD5-44-RDP-UNV-L82765-W2A1-U-5500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1167.4	1167.4	1167.4	1167.4	1167.4
2.5°	1176.3	1174.1	1171.8	1165.1	1158.4
5°	1158.4	1158.4	1165.1	1167.4	1158.4
7.5°	1149.5	1149.5	1149.5	1158.4	1154.0
10°	1140.6	1140.6	1140.6	1147.3	1147.3
12.5°	1125.0	1127.2	1129.4	1131.7	1136.1
15°	1104.9	1109.3	1113.8	1120.5	1127.2
17.5°	1084.8	1089.2	1098.2	1104.9	1113.8
20°	1062.5	1066.9	1078.1	1084.8	1093.7
22.5°	1037.9	1040.1	1053.5	1062.5	1073.6
25°	1006.7	1013.4	1026.7	1040.1	1049.1
27.5°	975.4	982.1	997.7	1015.6	1029.0
30°	944.2	950.9	966.5	988.8	1002.2
32.5°	908.4	917.4	935.2	962.0	977.6
35°	870.5	881.7	904.0	930.8	948.6
37.5°	832.6	843.7	868.3	901.8	919.6
40°	794.6	805.8	832.6	868.3	890.6
42.5°	752.2	765.6	794.6	837.0	863.8
45°	712.0	725.4	758.9	808.0	837.0
47.5°	667.4	683.0	721.0	776.8	810.2
50°	622.7	640.6	683.0	745.5	781.2
52.5°	575.9	596.0	647.3	712.0	750.0
55°	529.0	551.3	611.6	678.5	716.5
57.5°	482.1	506.7	573.6	642.8	680.8
60°	435.3	462.0	535.7	607.1	645.1
62.5°	388.4	417.4	495.5	566.9	607.1
65°	339.3	375.0	455.3	526.8	564.7
67.5°	290.2	332.6	415.2	484.4	520.1
70°	243.3	290.2	372.8	437.5	471.0
72.5°	198.7	247.8	328.1	383.9	397.3
75°	156.2	207.6	281.2	299.1	303.6
77.5°	120.5	167.4	223.2	227.7	238.8
80°	87.1	127.2	151.8	165.2	169.6
82.5°	60.3	87.1	100.4	102.7	104.9
85°	37.9	46.9	51.3	49.1	49.1
87.5°	20.1	17.9	15.6	11.2	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)