

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: P275703

Luminaire Tested: **14CZ2-35-S-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275703  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-35-S-UNV-L92765-W2A1-U-5500K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3306.0 lumens  
Efficiency: N/A  
Efficacy: 117.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

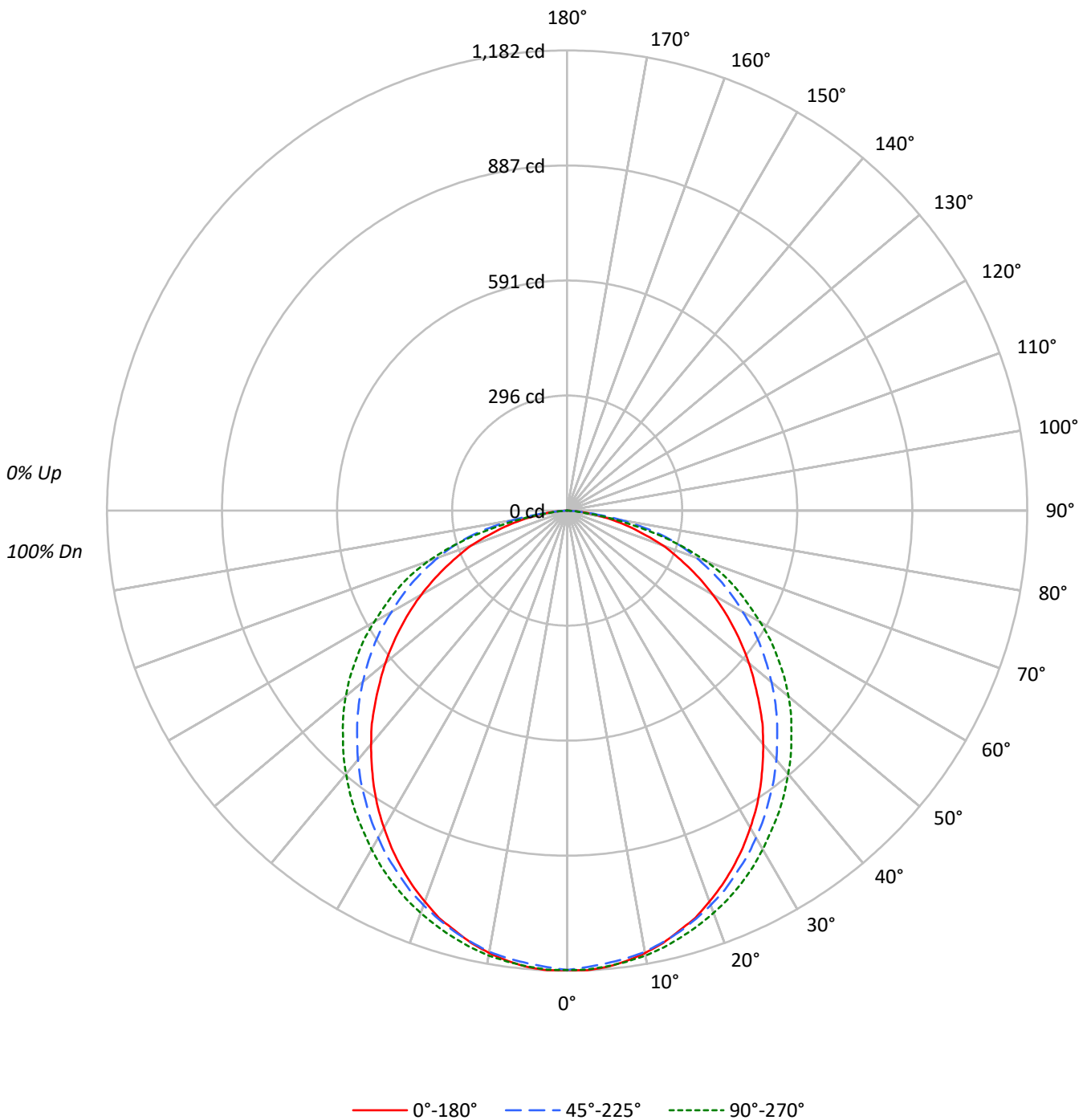
Input Watts (W): 28.179  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P275703

CATALOG NUMBER: 14CZ2-35-S-UNV-L92765-W2A1-U-5500K

### Luminous Intensity Polar Plot





TEST NUMBER: P275703

CATALOG NUMBER: 14CZ2-35-S-UNV-L92765-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	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	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	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	28	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°	3176	3176	3176
5°	3179	3153	3175
10°	3153	3144	3171
15°	3110	3119	3160
20°	3060	3089	3150
25°	2998	3051	3139
30°	2924	3015	3122
35°	2843	2972	3112
40°	2752	2937	3104
45°	2651	2901	3100
50°	2553	2869	3108
55°	2445	2845	3099
60°	2329	2805	3079
65°	2192	2797	3079
70°	2064	2773	2992
75°	1789	2709	2557
80°	1447	2185	1702
85°	960	760	506



TEST NUMBER: P275703

CATALOG NUMBER: 14CZ2-35-S-UNV-L92765-W2A1-U-5500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.4	3.4
10°-20°	317.1	9.6
20°-30°	475.7	14.4
30°-40°	567.4	17.2
40°-50°	586.6	17.7
50°-60°	535.6	16.2
60°-70°	421.5	12.7
70°-80°	245.4	7.4
80°-90°	45.2	1.4
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°	904.3	27.4
0°-40°	1471.7	44.5
0°-60°	2593.9	78.5
0°-90°	3306.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3306.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1180	1180	1180	1180	1180	
5°	1177	1174	1167	1177	1175	112
15°	1116	1118	1120	1134	1134	315
25°	1010	1015	1028	1052	1057	465
35°	866	877	905	939	947	541
45°	697	720	762	805	815	538
55°	521	549	606	651	661	466
65°	344	380	439	474	484	342
75°	172	213	261	256	246	183
85°	31	44	25	20	16	40
90°	0	0	0	0	0	



TEST NUMBER: P275703

CATALOG NUMBER: 14CZ2-35-S-UNV-L92765-W2A1-U-5500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1180.2	1180.2	1180.2	1180.2	1180.2
2.5°	1181.8	1178.5	1173.6	1181.8	1180.2
5°	1176.9	1173.6	1167.1	1176.9	1175.3
7.5°	1167.1	1163.8	1160.5	1170.4	1168.7
10°	1154.0	1152.3	1150.7	1162.2	1160.5
12.5°	1137.6	1137.6	1135.9	1149.0	1149.0
15°	1116.3	1117.9	1119.5	1134.3	1134.3
17.5°	1096.6	1095.0	1099.9	1116.3	1117.9
20°	1068.7	1072.0	1078.6	1098.2	1099.9
22.5°	1040.9	1044.1	1055.6	1075.3	1080.2
25°	1009.7	1014.6	1027.7	1052.3	1057.3
27.5°	976.9	983.5	1001.5	1027.7	1032.7
30°	940.9	950.7	970.4	999.9	1004.8
32.5°	904.8	914.6	939.2	968.7	975.3
35°	865.5	876.9	904.8	939.2	947.4
37.5°	824.5	839.2	872.0	906.4	916.3
40°	783.5	799.9	836.0	872.0	883.5
42.5°	742.5	758.9	798.3	839.2	850.7
45°	696.6	719.6	762.2	804.8	814.7
47.5°	652.4	677.0	724.5	767.1	780.2
50°	609.8	634.4	685.2	729.4	742.5
52.5°	565.5	591.7	645.8	691.7	703.2
55°	521.2	549.1	606.5	650.7	660.6
57.5°	477.0	506.5	565.5	608.1	619.6
60°	432.7	463.9	521.2	563.9	572.1
62.5°	388.5	421.3	480.3	518.0	526.2
65°	344.2	380.3	439.3	473.7	483.5
67.5°	301.6	337.7	395.0	427.8	436.0
70°	262.3	295.0	352.4	377.0	380.3
72.5°	213.1	254.1	309.8	322.9	314.7
75°	172.1	213.1	260.6	255.7	245.9
77.5°	131.1	172.1	203.3	186.9	173.7
80°	93.4	134.4	141.0	116.4	109.8
82.5°	60.6	93.4	78.7	60.6	49.2
85°	31.1	44.3	24.6	19.7	16.4
87.5°	9.8	6.6	3.3	3.3	1.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)