

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: P275548

Luminaire Tested: **14CZ2-44-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275548  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-44-UNV-L92765-W2A1-U-3000K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER  
WITH RIBBED LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3504.0 lumens  
Efficiency: N/A  
Efficacy: 99.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

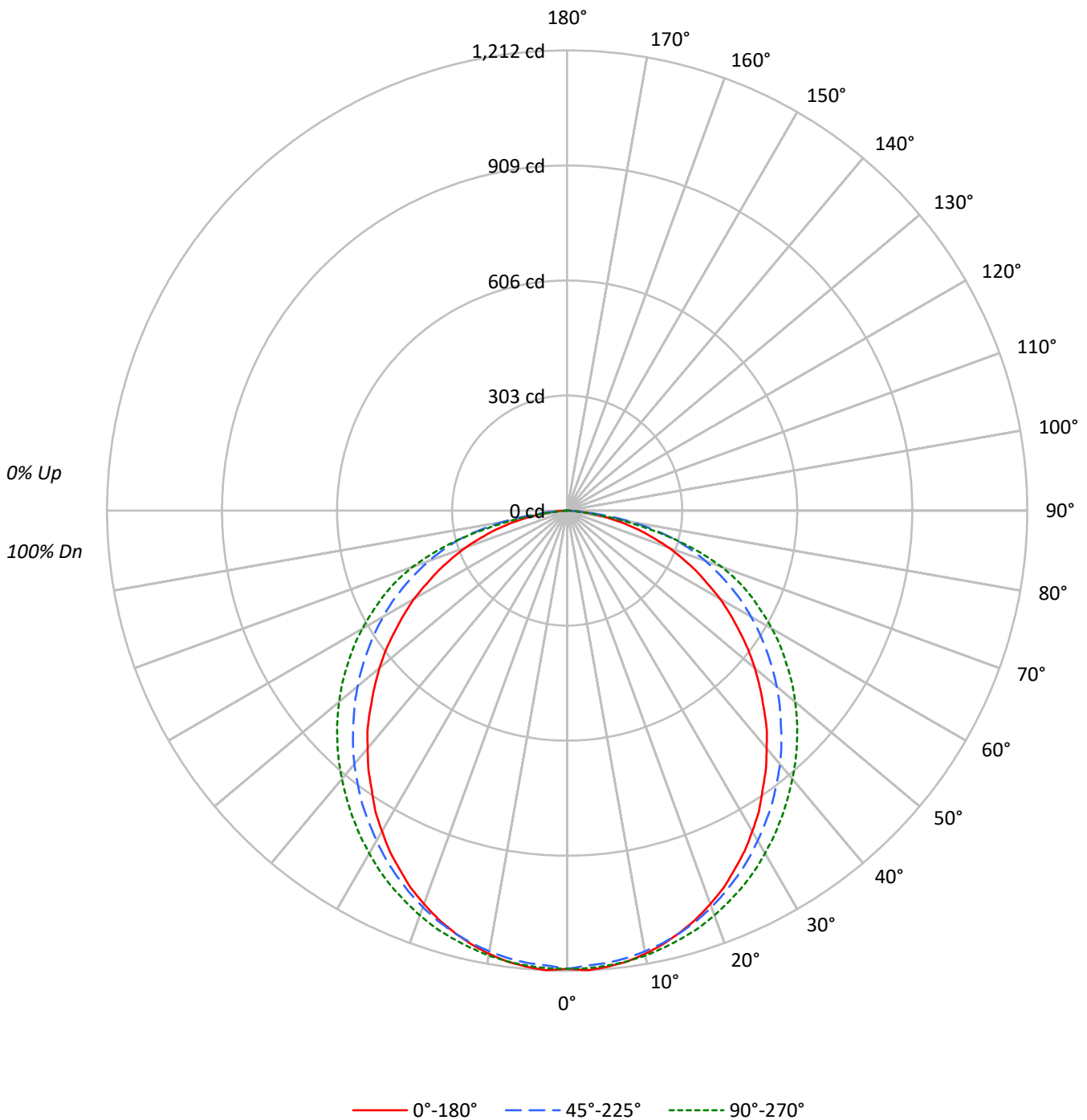
Input Watts (W): 35.247  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	90	88	90	87	85	83
2	98	90	83	77	96	88	82	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	58
4	82	70	61	54	79	68	60	53	66	58	53	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	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

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

	0°	45°	90°
0°	3248	3248	3248
5°	3259	3231	3250
10°	3239	3222	3252
15°	3204	3206	3250
20°	3157	3184	3249
25°	3097	3153	3246
30°	3030	3120	3239
35°	2949	3093	3236
40°	2871	3063	3241
45°	2783	3030	3259
50°	2702	3016	3281
55°	2599	3006	3310
60°	2506	3011	3356
65°	2378	3020	3408
70°	2231	3043	3406
75°	2022	3070	3079
80°	1658	2651	2191
85°	1229	1254	506



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.2	3.3
10°-20°	326.3	9.3
20°-30°	491.5	14.0
30°-40°	589.9	16.8
40°-50°	614.8	17.5
50°-60°	569.1	16.2
60°-70°	459.9	13.1
70°-80°	280.4	8.0
80°-90°	57.9	1.7
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°	932.1	26.6
0°-40°	1521.9	43.4
0°-60°	2705.9	77.2
0°-90°	3504.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3504.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1207	1207	1207	1207	1207	
5°	1206	1203	1196	1205	1203	115
15°	1150	1151	1151	1166	1166	324
25°	1043	1049	1062	1088	1093	481
35°	898	912	942	976	985	562
45°	731	753	796	841	856	565
55°	554	583	641	691	706	496
65°	374	410	474	522	535	369
75°	194	238	295	300	296	204
85°	40	59	41	23	16	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1207.1	1207.1	1207.1	1207.1	1207.1
2.5°	1211.8	1207.9	1199.3	1207.9	1206.4
5°	1206.4	1203.2	1196.2	1204.8	1203.2
7.5°	1198.5	1195.4	1189.2	1199.3	1197.8
10°	1185.3	1183.7	1179.0	1190.7	1190.0
12.5°	1169.6	1168.9	1166.5	1179.8	1179.0
15°	1150.1	1150.9	1150.9	1166.5	1166.5
17.5°	1128.2	1129.8	1132.9	1150.1	1152.4
20°	1102.4	1105.6	1111.8	1131.4	1134.5
22.5°	1075.9	1078.2	1087.6	1111.0	1114.2
25°	1043.1	1049.3	1061.8	1088.4	1093.1
27.5°	1011.8	1017.3	1034.5	1061.8	1069.6
30°	975.1	983.7	1004.0	1033.7	1042.3
32.5°	939.9	949.3	972.7	1007.1	1014.9
35°	897.7	911.8	941.5	975.9	985.2
37.5°	859.5	872.7	906.3	943.8	954.8
40°	817.3	833.7	872.0	911.8	922.7
42.5°	778.2	793.8	835.2	875.9	890.7
45°	731.3	753.2	796.2	840.7	856.3
47.5°	688.3	710.2	759.4	807.1	821.2
50°	645.4	668.8	720.4	769.6	783.7
52.5°	600.8	625.8	681.3	730.5	746.9
55°	554.0	582.9	640.7	690.7	705.5
57.5°	509.4	539.1	600.8	651.6	666.5
60°	465.7	496.1	559.4	607.9	623.5
62.5°	417.2	453.2	518.8	566.5	578.2
65°	373.5	410.2	474.3	521.9	535.2
67.5°	327.4	367.2	431.3	475.0	487.5
70°	283.6	325.0	386.8	427.4	432.9
72.5°	236.7	278.9	341.4	367.2	367.2
75°	194.5	237.5	295.3	300.0	296.1
77.5°	148.5	196.1	233.6	224.2	214.9
80°	107.0	153.9	171.1	153.9	141.4
82.5°	71.9	111.7	103.1	82.0	72.7
85°	39.8	59.4	40.6	22.7	16.4
87.5°	14.8	13.3	3.9	3.9	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)