

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: P275541

Luminaire Tested: **14CZ2-39-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275541  
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: 14CZ2-39-UNV-L92765-W2A1-U-4000K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER  
WITH RIBBED LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3397.0 lumens  
Efficiency: N/A  
Efficacy: 108.4 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

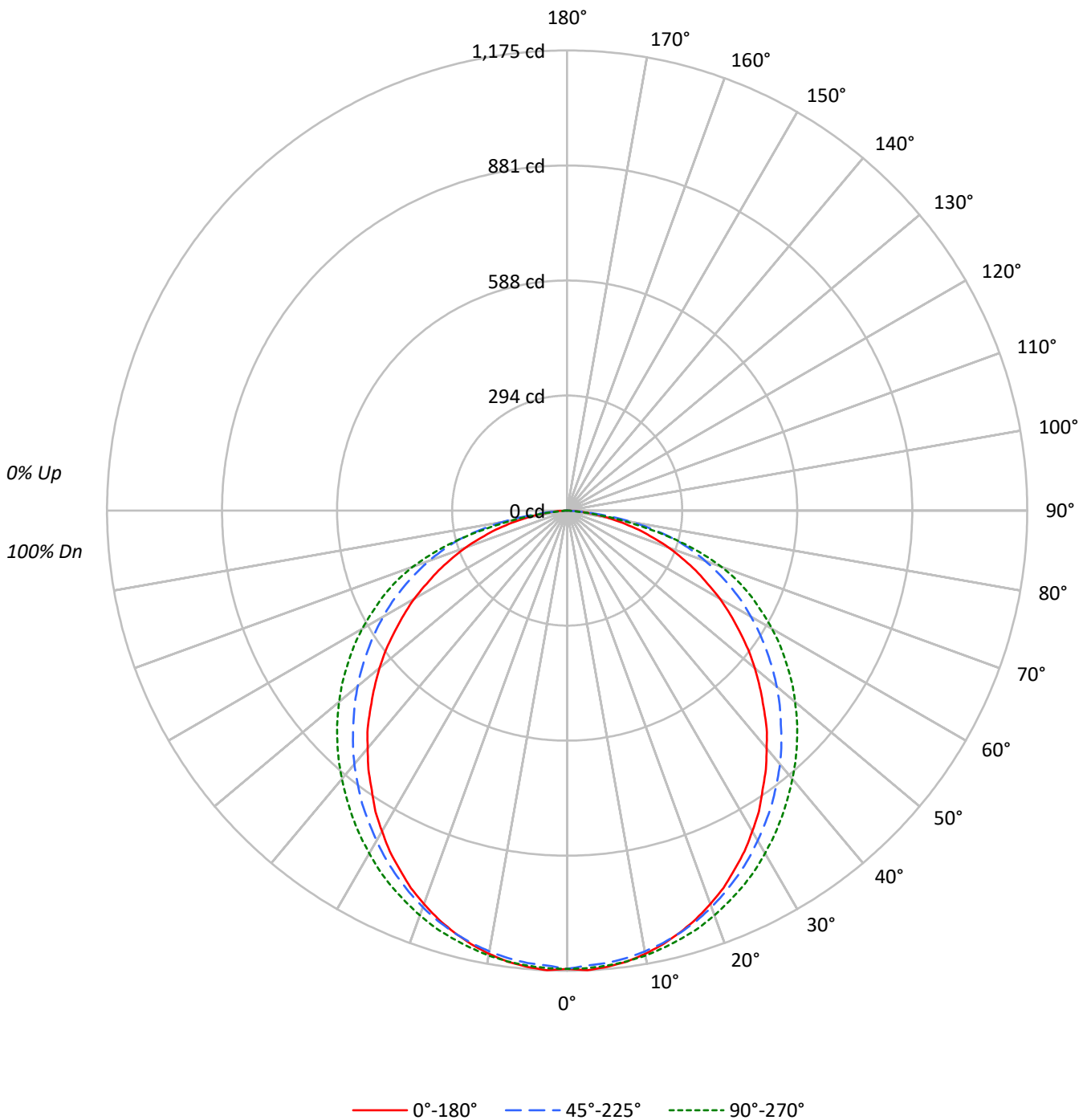
Input Watts (W): 31.341  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3149	3149	3149
5°	3159	3133	3151
10°	3140	3123	3152
15°	3106	3108	3151
20°	3061	3087	3149
25°	3002	3056	3146
30°	2937	3024	3140
35°	2859	2998	3138
40°	2783	2969	3143
45°	2698	2938	3159
50°	2619	2924	3180
55°	2519	2914	3209
60°	2429	2919	3253
65°	2306	2928	3304
70°	2164	2950	3301
75°	1961	2977	2985
80°	1609	2571	2125
85°	1192	1216	491



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.7	3.3
10°-20°	316.3	9.3
20°-30°	476.5	14.0
30°-40°	571.8	16.8
40°-50°	596.0	17.5
50°-60°	551.8	16.2
60°-70°	445.8	13.1
70°-80°	271.8	8.0
80°-90°	56.1	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°	903.6	26.6
0°-40°	1475.5	43.4
0°-60°	2623.2	77.2
0°-90°	3397.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3397.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1170	1170	1170	1170	1170	
5°	1170	1166	1160	1168	1166	111
15°	1115	1116	1116	1131	1131	314
25°	1011	1017	1029	1055	1060	466
35°	870	884	913	946	955	545
45°	709	730	772	815	830	548
55°	537	565	621	670	684	481
65°	362	398	460	506	519	358
75°	189	230	286	291	287	198
85°	39	58	39	22	16	47
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1170.3	1170.3	1170.3	1170.3	1170.3
2.5°	1174.8	1171.0	1162.7	1171.0	1169.5
5°	1169.5	1166.5	1159.7	1168.0	1166.5
7.5°	1161.9	1158.9	1152.9	1162.7	1161.2
10°	1149.1	1147.6	1143.0	1154.4	1153.6
12.5°	1133.9	1133.2	1130.9	1143.8	1143.0
15°	1115.0	1115.7	1115.7	1130.9	1130.9
17.5°	1093.8	1095.3	1098.3	1115.0	1117.3
20°	1068.8	1071.8	1077.9	1096.8	1099.8
22.5°	1043.0	1045.3	1054.4	1077.1	1080.1
25°	1011.2	1017.3	1029.4	1055.1	1059.7
27.5°	980.9	986.2	1002.9	1029.4	1037.0
30°	945.3	953.6	973.3	1002.1	1010.5
32.5°	911.2	920.3	943.0	976.4	983.9
35°	870.3	884.0	912.7	946.1	955.2
37.5°	833.2	846.1	878.7	915.0	925.6
40°	792.3	808.2	845.3	884.0	894.6
42.5°	754.4	769.6	809.7	849.1	863.5
45°	709.0	730.2	771.9	815.0	830.2
47.5°	667.3	688.5	736.3	782.5	796.1
50°	625.7	648.4	698.4	746.1	759.7
52.5°	582.5	606.7	660.5	708.2	724.1
55°	537.0	565.1	621.1	669.6	684.0
57.5°	493.9	522.6	582.5	631.7	646.1
60°	451.4	481.0	542.3	589.3	604.5
62.5°	404.5	439.3	503.0	549.2	560.5
65°	362.1	397.7	459.8	506.0	518.9
67.5°	317.4	356.0	418.1	460.5	472.7
70°	275.0	315.1	374.9	414.3	419.6
72.5°	229.5	270.4	331.0	356.0	356.0
75°	188.6	230.3	286.3	290.9	287.1
77.5°	143.9	190.1	226.5	217.4	208.3
80°	103.8	149.2	165.9	149.2	137.1
82.5°	69.7	108.3	100.0	79.5	70.4
85°	38.6	57.6	39.4	22.0	15.9
87.5°	14.4	12.9	3.8	3.8	3.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)