

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: P275704

Luminaire Tested: **14CZ2-35-S-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275704  
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-5700K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER  
WITH SMOOTH LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3321.0 lumens  
Efficiency: N/A  
Efficacy: 117.5 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

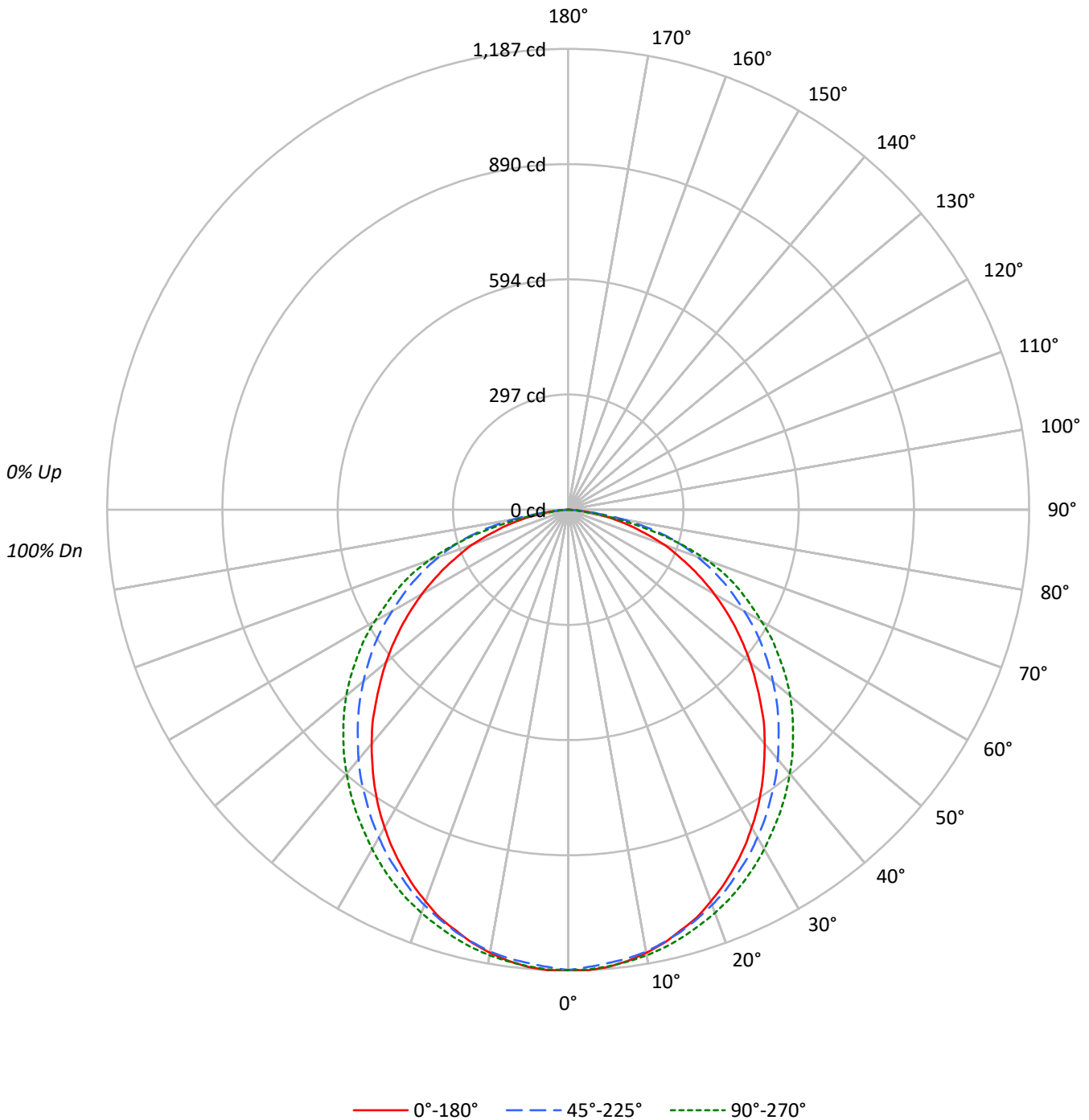
Input Watts (W): 28.272  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	3190	3190	3190
5°	3193	3167	3189
10°	3168	3158	3186
15°	3124	3133	3174
20°	3074	3103	3164
25°	3012	3065	3153
30°	2937	3029	3136
35°	2856	2986	3126
40°	2765	2950	3118
45°	2663	2914	3115
50°	2564	2882	3123
55°	2457	2858	3113
60°	2340	2818	3093
65°	2202	2810	3093
70°	2073	2785	3006
75°	1798	2722	2568
80°	1455	2194	1709
85°	966	763	509



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.9	3.4
10°-20°	318.6	9.6
20°-30°	477.9	14.4
30°-40°	570.0	17.2
40°-50°	589.3	17.7
50°-60°	538.0	16.2
60°-70°	423.4	12.7
70°-80°	246.5	7.4
80°-90°	45.4	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°	908.4	27.4
0°-40°	1478.4	44.5
0°-60°	2605.7	78.5
0°-90°	3321.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3321.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1186	1186	1186	1186	1186	
5°	1182	1179	1172	1182	1181	112
15°	1121	1123	1125	1139	1139	316
25°	1014	1019	1032	1057	1062	467
35°	869	881	909	944	952	543
45°	700	723	766	808	818	540
55°	524	552	609	654	664	468
65°	346	382	441	476	486	343
75°	173	214	262	257	247	184
85°	31	44	25	20	16	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1185.5	1185.5	1185.5	1185.5	1185.5
2.5°	1187.2	1183.9	1179.0	1187.2	1185.5
5°	1182.2	1179.0	1172.4	1182.2	1180.6
7.5°	1172.4	1169.1	1165.8	1175.7	1174.0
10°	1159.2	1157.5	1155.9	1167.4	1165.8
12.5°	1142.7	1142.7	1141.1	1154.3	1154.3
15°	1121.3	1123.0	1124.6	1139.4	1139.4
17.5°	1101.6	1099.9	1104.9	1121.3	1123.0
20°	1073.6	1076.9	1083.5	1103.2	1104.9
22.5°	1045.6	1048.9	1060.4	1080.2	1085.1
25°	1014.3	1019.2	1032.4	1057.1	1062.0
27.5°	981.4	988.0	1006.1	1032.4	1037.3
30°	945.1	955.0	974.8	1004.4	1009.4
32.5°	908.9	918.8	943.5	973.1	979.7
35°	869.4	880.9	908.9	943.5	951.7
37.5°	828.2	843.1	876.0	910.6	920.4
40°	787.1	803.5	839.8	876.0	887.5
42.5°	745.9	762.4	801.9	843.1	854.6
45°	699.8	722.9	765.7	808.5	818.4
47.5°	655.3	680.0	727.8	770.6	783.8
50°	612.5	637.2	688.3	732.7	745.9
52.5°	568.1	594.4	648.8	694.9	706.4
55°	523.6	551.6	609.2	653.7	663.6
57.5°	479.2	508.8	568.1	610.9	622.4
60°	434.7	466.0	523.6	566.4	574.7
62.5°	390.2	423.2	482.4	520.3	528.6
65°	345.8	382.0	441.3	475.9	485.7
67.5°	303.0	339.2	396.8	429.8	438.0
70°	263.5	296.4	354.0	378.7	382.0
72.5°	214.1	255.2	311.2	324.4	316.1
75°	172.9	214.1	261.8	256.9	247.0
77.5°	131.7	172.9	204.2	187.7	174.5
80°	93.9	135.0	141.6	116.9	110.3
82.5°	60.9	93.9	79.0	60.9	49.4
85°	31.3	44.5	24.7	19.8	16.5
87.5°	9.9	6.6	3.3	3.3	1.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)