

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: P275645

Luminaire Tested: **14CZ2-35-S-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275645  
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-L82765-W2A1-U-3500K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3440.0 lumens  
Efficiency: N/A  
Efficacy: 125.0 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

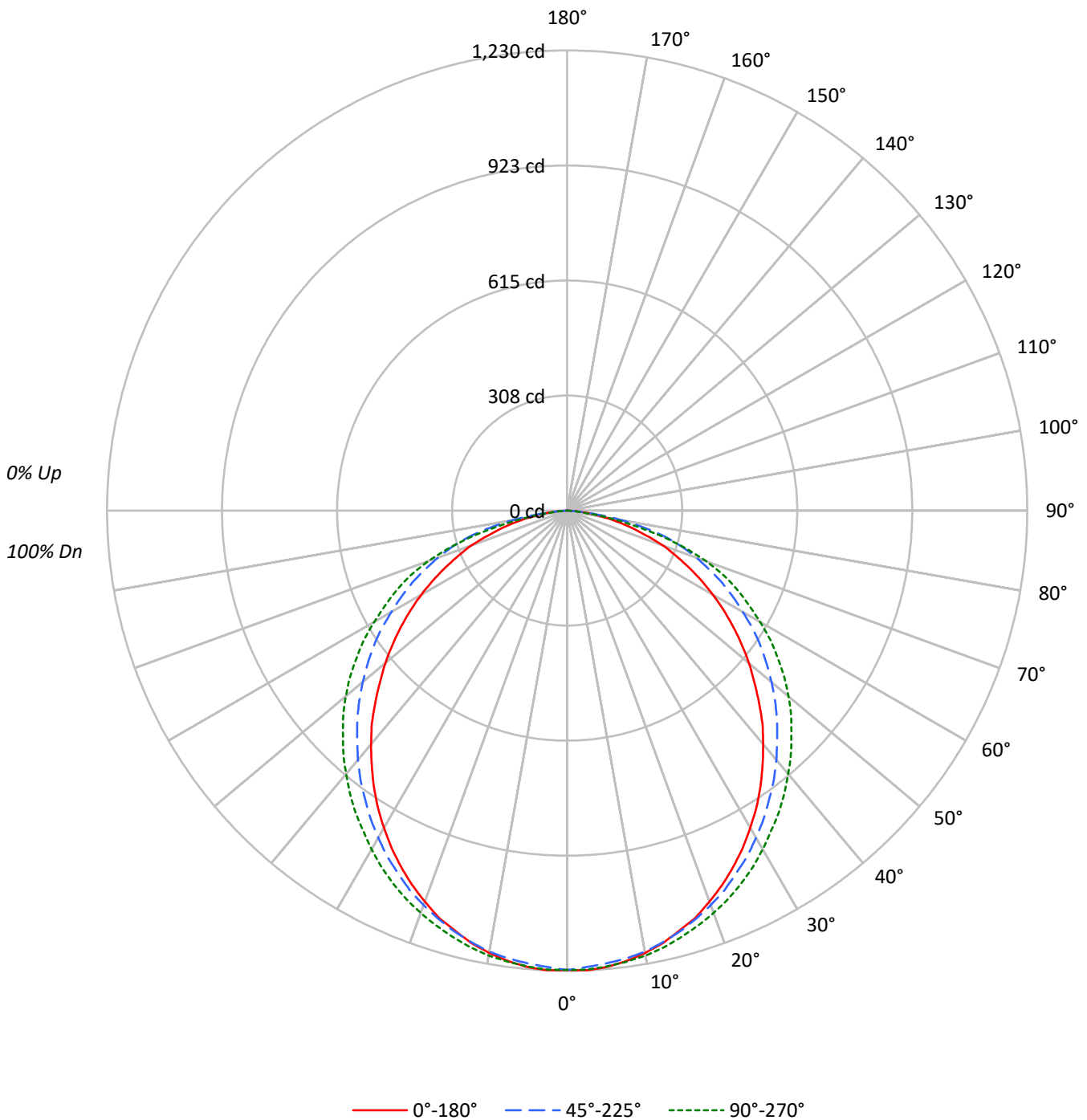
Input Watts (W): 27.528  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3305	3305	3305
5°	3308	3280	3303
10°	3281	3272	3300
15°	3236	3245	3288
20°	3184	3214	3277
25°	3119	3175	3266
30°	3042	3137	3249
35°	2959	3093	3238
40°	2864	3055	3229
45°	2759	3018	3226
50°	2656	2984	3234
55°	2545	2961	3225
60°	2423	2919	3204
65°	2281	2911	3203
70°	2147	2885	3113
75°	1862	2820	2660
80°	1506	2273	1771
85°	1000	790	528



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.0	3.4
10°-20°	330.0	9.6
20°-30°	495.0	14.4
30°-40°	590.5	17.2
40°-50°	610.4	17.7
50°-60°	557.3	16.2
60°-70°	438.6	12.7
70°-80°	255.3	7.4
80°-90°	47.0	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°	940.9	27.4
0°-40°	1531.4	44.5
0°-60°	2699.1	78.5
0°-90°	3440.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3440.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1228	1228	1228	1228	1228	
5°	1225	1221	1214	1225	1223	116
15°	1162	1163	1165	1180	1180	328
25°	1051	1056	1069	1095	1100	484
35°	901	912	942	977	986	563
45°	725	749	793	837	848	560
55°	542	571	631	677	687	485
65°	358	396	457	493	503	356
75°	179	222	271	266	256	190
85°	32	46	26	20	17	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1228.0	1228.0	1228.0	1228.0	1228.0
2.5°	1229.7	1226.3	1221.2	1229.7	1228.0
5°	1224.6	1221.2	1214.4	1224.6	1222.9
7.5°	1214.4	1211.0	1207.6	1217.8	1216.1
10°	1200.7	1199.0	1197.3	1209.3	1207.6
12.5°	1183.7	1183.7	1182.0	1195.6	1195.6
15°	1161.5	1163.2	1164.9	1180.3	1180.3
17.5°	1141.0	1139.3	1144.4	1161.5	1163.2
20°	1112.0	1115.5	1122.3	1142.7	1144.4
22.5°	1083.0	1086.5	1098.4	1118.9	1124.0
25°	1050.6	1055.8	1069.4	1095.0	1100.1
27.5°	1016.5	1023.4	1042.1	1069.4	1074.5
30°	979.0	989.2	1009.7	1040.4	1045.5
32.5°	941.5	951.7	977.3	1008.0	1014.8
35°	900.6	912.5	941.5	977.3	985.8
37.5°	857.9	873.3	907.4	943.2	953.4
40°	815.3	832.3	869.8	907.4	919.3
42.5°	772.6	789.7	830.6	873.3	885.2
45°	724.9	748.8	793.1	837.4	847.7
47.5°	678.8	704.4	753.9	798.2	811.9
50°	634.5	660.1	712.9	759.0	772.6
52.5°	588.4	615.7	672.0	719.8	731.7
55°	542.4	571.4	631.1	677.1	687.4
57.5°	496.3	527.0	588.4	632.8	644.7
60°	450.3	482.7	542.4	586.7	595.3
62.5°	404.2	438.3	499.7	539.0	547.5
65°	358.2	395.7	457.1	492.9	503.1
67.5°	313.8	351.4	411.0	445.2	453.7
70°	272.9	307.0	366.7	392.3	395.7
72.5°	221.7	264.4	322.4	336.0	327.5
75°	179.1	221.7	271.2	266.1	255.8
77.5°	136.4	179.1	211.5	194.4	180.8
80°	97.2	139.9	146.7	121.1	114.3
82.5°	63.1	97.2	81.9	63.1	51.2
85°	32.4	46.1	25.6	20.5	17.1
87.5°	10.2	6.8	3.4	3.4	1.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)