

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: P258625

Luminaire Tested: **14CZ-LD5-35-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258625  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35573)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ-LD5-35-UNV-L82765-W2A1-U-3500K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER  
WITH RIBBED LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3453.0 lumens  
Efficiency: N/A  
Efficacy: 125.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

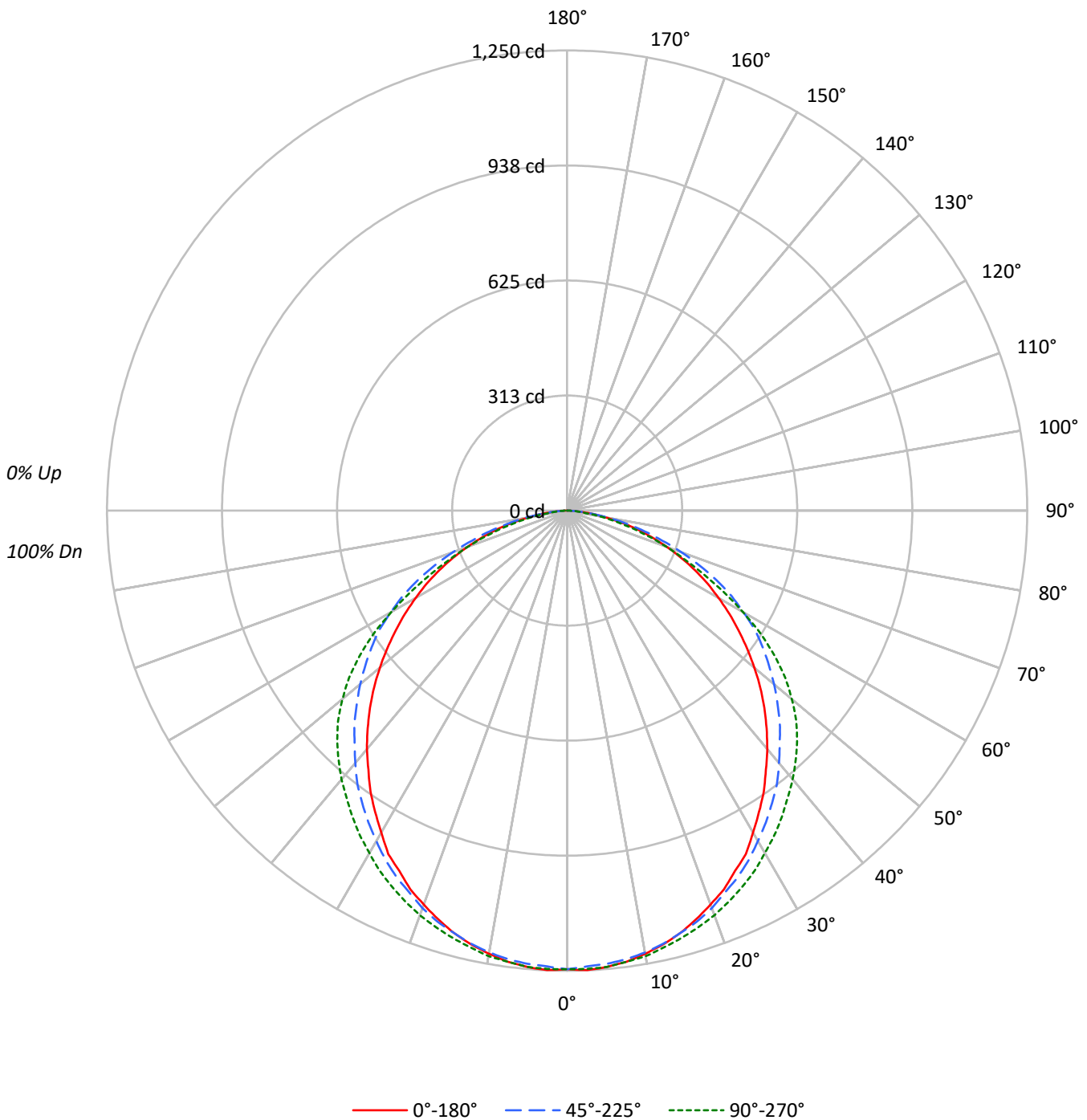
Input Watts (W): 27.528  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

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

	0°	45°	90°
0°	3353	3353	3353
5°	3361	3338	3361
10°	3340	3331	3359
15°	3310	3310	3348
20°	3261	3291	3349
25°	3205	3260	3346
30°	3137	3221	3338
35°	3059	3188	3339
40°	2972	3145	3349
45°	2883	3110	3362
50°	2779	3072	3335
55°	2668	3043	3226
60°	2556	2978	2968
65°	2439	2851	2602
70°	2264	2598	2250
75°	2053	2266	1858
80°	1635	1795	1371
85°	1158	997	787



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.9	3.4
10°-20°	336.8	9.8
20°-30°	507.8	14.7
30°-40°	608.7	17.6
40°-50°	631.7	18.3
50°-60°	569.8	16.5
60°-70°	415.6	12.0
70°-80°	218.1	6.3
80°-90°	46.5	1.3
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°	962.6	27.9
0°-40°	1571.3	45.5
0°-60°	2772.8	80.3
0°-90°	3453.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3453.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1246	1246	1246	1246	1246	
5°	1244	1241	1236	1244	1244	118
15°	1188	1188	1188	1202	1202	335
25°	1079	1084	1098	1122	1127	498
35°	931	941	970	1006	1016	582
45°	758	773	817	866	884	584
55°	569	589	649	691	688	509
65°	383	405	448	431	409	379
75°	198	225	218	189	179	207
85°	38	46	32	27	26	48
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1246.1	1246.1	1246.1	1246.1	1246.1
2.5°	1249.5	1246.1	1239.3	1246.1	1246.1
5°	1244.4	1241.0	1235.9	1244.4	1244.4
7.5°	1235.9	1232.5	1229.1	1237.6	1235.9
10°	1222.3	1220.6	1218.9	1229.1	1229.1
12.5°	1206.9	1206.9	1205.2	1217.2	1215.4
15°	1188.2	1188.2	1188.2	1201.8	1201.8
17.5°	1164.4	1167.8	1171.2	1186.5	1186.5
20°	1138.8	1142.2	1149.1	1167.8	1169.5
22.5°	1113.3	1115.0	1121.8	1144.0	1149.1
25°	1079.3	1084.4	1098.0	1121.8	1126.9
27.5°	1052.0	1053.7	1069.0	1096.3	1103.1
30°	1009.5	1021.4	1036.7	1067.3	1074.2
32.5°	970.3	980.5	1004.4	1036.7	1046.9
35°	931.2	941.4	970.3	1006.1	1016.3
37.5°	886.9	902.2	936.3	972.0	983.9
40°	846.0	859.7	895.4	939.7	953.3
42.5°	801.8	815.4	854.6	903.9	919.2
45°	757.5	772.8	817.1	866.5	883.5
47.5°	711.6	728.6	774.6	829.0	844.3
50°	663.9	682.6	733.7	789.9	796.7
52.5°	616.2	636.7	691.1	740.5	747.3
55°	568.6	589.0	648.6	691.1	687.7
57.5°	522.6	544.7	606.0	628.2	624.7
60°	474.9	498.8	553.3	563.5	551.5
62.5°	430.7	452.8	503.9	495.4	480.1
65°	383.0	405.1	447.7	430.7	408.6
67.5°	335.4	362.6	389.8	360.9	343.9
70°	287.7	318.3	330.2	301.3	286.0
72.5°	241.7	274.1	270.7	241.7	231.5
75°	197.5	224.7	217.9	189.0	178.7
77.5°	149.8	180.4	165.1	141.3	132.8
80°	105.5	132.8	115.8	95.3	88.5
82.5°	69.8	88.5	71.5	56.2	51.1
85°	37.5	46.0	32.3	27.2	25.5
87.5°	15.3	13.6	11.9	11.9	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)