

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: P258631

Luminaire Tested: **14CZ-LD5-35-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258631  
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-6500K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3695.0 lumens  
Efficiency: N/A  
Efficacy: 129.0 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

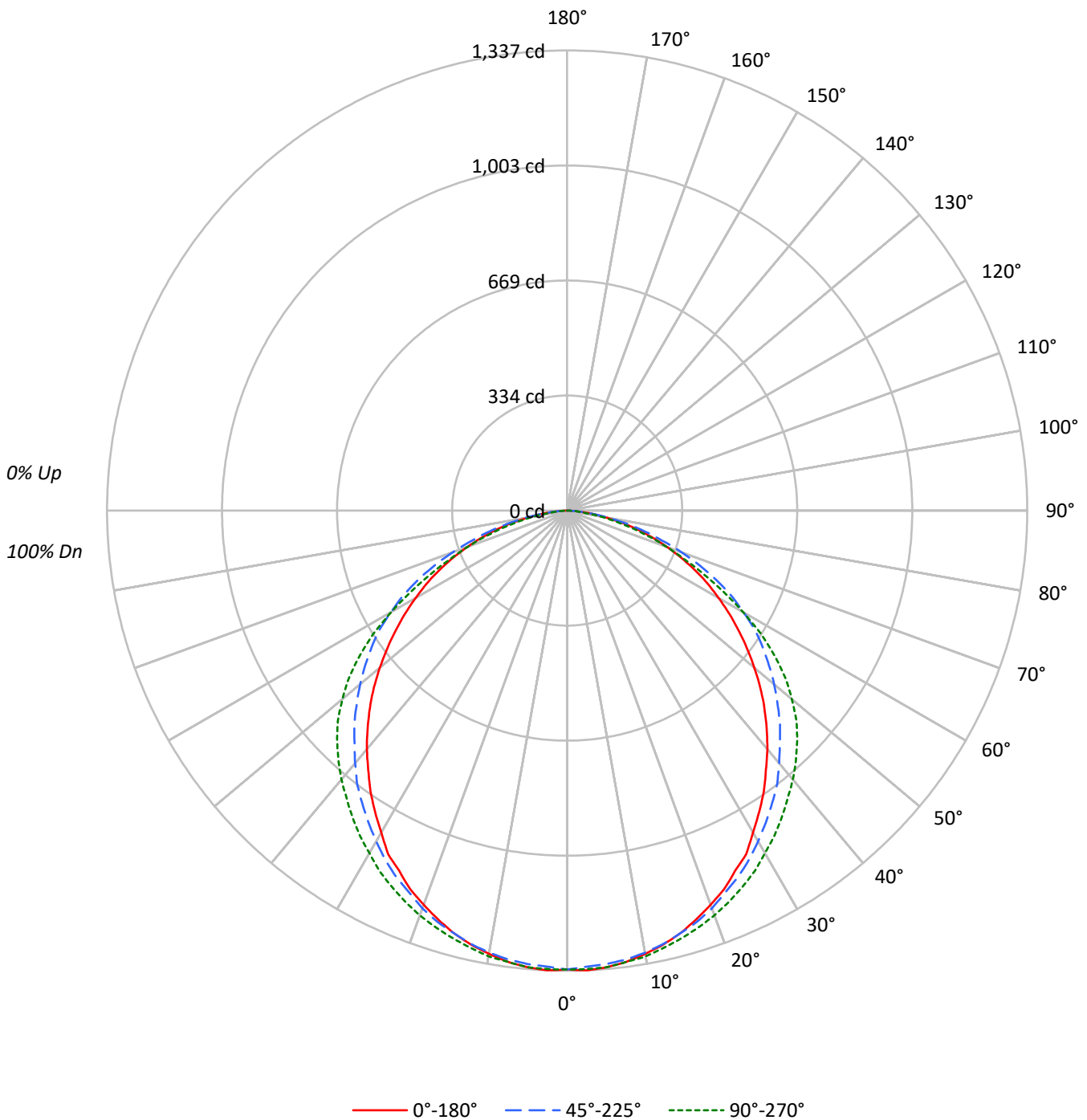
Input Watts (W): 28.644  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	3588	3588	3588
5°	3597	3572	3597
10°	3574	3564	3594
15°	3542	3542	3583
20°	3490	3521	3584
25°	3429	3488	3581
30°	3356	3447	3572
35°	3273	3411	3573
40°	3180	3366	3583
45°	3085	3328	3598
50°	2974	3287	3569
55°	2854	3256	3453
60°	2735	3186	3176
65°	2610	3051	2784
70°	2423	2781	2408
75°	2197	2425	1989
80°	1750	1920	1468
85°	1238	1068	843



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.2	3.4
10°-20°	360.4	9.8
20°-30°	543.4	14.7
30°-40°	651.4	17.6
40°-50°	676.0	18.3
50°-60°	609.7	16.5
60°-70°	444.8	12.0
70°-80°	233.4	6.3
80°-90°	49.8	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°	1030.0	27.9
0°-40°	1681.4	45.5
0°-60°	2967.1	80.3
0°-90°	3695.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3695.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1333	1333	1333	1333	1333	
5°	1332	1328	1322	1332	1332	126
15°	1272	1272	1272	1286	1286	358
25°	1155	1160	1175	1200	1206	533
35°	996	1007	1038	1077	1088	622
45°	811	827	874	927	945	625
55°	608	630	694	740	736	545
65°	410	434	479	461	437	405
75°	211	240	233	202	191	222
85°	40	49	35	29	27	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1333.4	1333.4	1333.4	1333.4	1333.4
2.5°	1337.1	1333.4	1326.1	1333.4	1333.4
5°	1331.6	1328.0	1322.5	1331.6	1331.6
7.5°	1322.5	1318.8	1315.2	1324.3	1322.5
10°	1307.9	1306.1	1304.3	1315.2	1315.2
12.5°	1291.5	1291.5	1289.7	1302.5	1300.6
15°	1271.5	1271.5	1271.5	1286.1	1286.1
17.5°	1246.0	1249.6	1253.3	1269.7	1269.7
20°	1218.7	1222.3	1229.6	1249.6	1251.4
22.5°	1191.3	1193.2	1200.4	1224.1	1229.6
25°	1154.9	1160.4	1174.9	1200.4	1205.9
27.5°	1125.8	1127.6	1144.0	1173.1	1180.4
30°	1080.2	1093.0	1109.4	1142.2	1149.4
32.5°	1038.3	1049.2	1074.8	1109.4	1120.3
35°	996.4	1007.4	1038.3	1076.6	1087.5
37.5°	949.1	965.5	1001.9	1040.1	1052.9
40°	905.3	919.9	958.2	1005.5	1020.1
42.5°	858.0	872.6	914.4	967.3	983.7
45°	810.6	827.0	874.4	927.2	945.4
47.5°	761.4	779.7	828.8	887.1	903.5
50°	710.4	730.5	785.1	845.2	852.5
52.5°	659.4	681.3	739.6	792.4	799.7
55°	608.4	630.3	694.0	739.6	735.9
57.5°	559.2	582.9	648.5	672.2	668.5
60°	508.2	533.7	592.0	603.0	590.2
62.5°	460.9	484.5	539.2	530.1	513.7
65°	409.9	433.5	479.1	460.9	437.2
67.5°	358.9	388.0	417.1	386.2	368.0
70°	307.9	340.6	353.4	322.4	306.0
72.5°	258.7	293.3	289.6	258.7	247.7
75°	211.3	240.5	233.2	202.2	191.3
77.5°	160.3	193.1	176.7	151.2	142.1
80°	112.9	142.1	123.9	102.0	94.7
82.5°	74.7	94.7	76.5	60.1	54.6
85°	40.1	49.2	34.6	29.1	27.3
87.5°	16.4	14.6	12.8	12.8	10.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)