

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: P258627

Luminaire Tested: **14CZ-LD5-35-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258627  
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-4500K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3591.0 lumens  
Efficiency: N/A  
Efficacy: 128.3 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

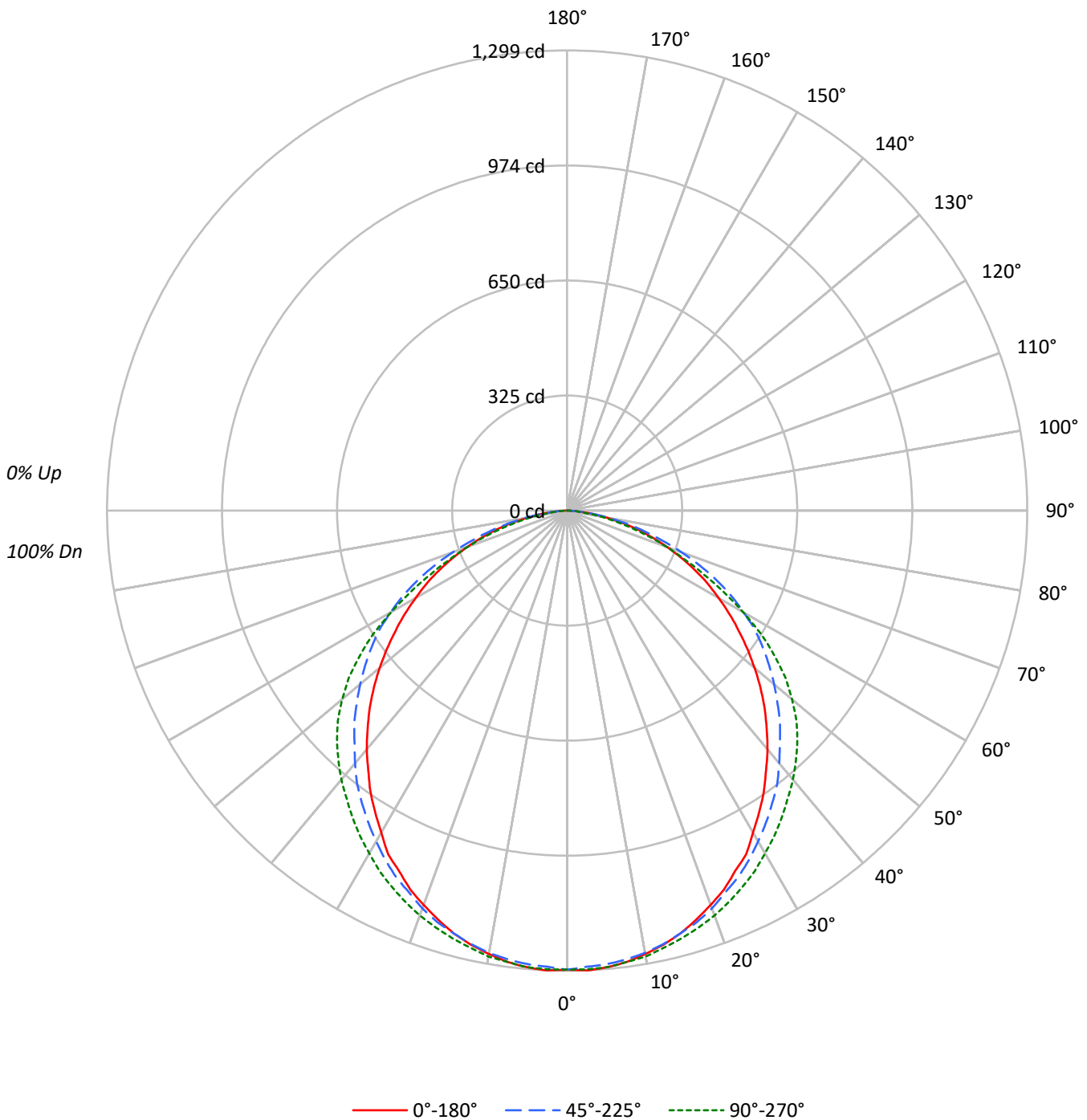
Input Watts (W): 27.993  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70					70			
3	90	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59					59			
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44					44			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38					38			
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34					34			
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30					30			
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27					27			
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25					25			

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

	0°	45°	90°
0°	3487	3487	3487
5°	3496	3472	3496
10°	3473	3464	3493
15°	3443	3443	3482
20°	3392	3422	3483
25°	3333	3390	3480
30°	3262	3350	3471
35°	3181	3315	3472
40°	3091	3271	3483
45°	2998	3234	3497
50°	2890	3194	3468
55°	2774	3164	3355
60°	2658	3097	3087
65°	2536	2965	2706
70°	2354	2702	2340
75°	2136	2356	1933
80°	1702	1866	1427
85°	1201	1037	821



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.6	3.4
10°-20°	350.3	9.8
20°-30°	528.1	14.7
30°-40°	633.1	17.6
40°-50°	657.0	18.3
50°-60°	592.6	16.5
60°-70°	432.2	12.0
70°-80°	226.8	6.3
80°-90°	48.4	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°	1001.0	27.9
0°-40°	1634.1	45.5
0°-60°	2883.6	80.3
0°-90°	3591.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3591.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1296	1296	1296	1296	1296	
5°	1294	1291	1285	1294	1294	123
15°	1236	1236	1236	1250	1250	348
25°	1122	1128	1142	1167	1172	518
35°	968	979	1009	1046	1057	605
45°	788	804	850	901	919	607
55°	591	612	674	719	715	529
65°	398	421	466	448	425	394
75°	205	234	227	196	186	215
85°	39	48	34	28	27	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1295.9	1295.9	1295.9	1295.9	1295.9
2.5°	1299.4	1295.9	1288.8	1295.9	1295.9
5°	1294.1	1290.6	1285.3	1294.1	1294.1
7.5°	1285.3	1281.7	1278.2	1287.0	1285.3
10°	1271.1	1269.3	1267.6	1278.2	1278.2
12.5°	1255.2	1255.2	1253.4	1265.8	1264.0
15°	1235.7	1235.7	1235.7	1249.9	1249.9
17.5°	1210.9	1214.5	1218.0	1233.9	1233.9
20°	1184.4	1187.9	1195.0	1214.5	1216.2
22.5°	1157.8	1159.6	1166.7	1189.7	1195.0
25°	1122.4	1127.7	1141.9	1166.7	1172.0
27.5°	1094.1	1095.8	1111.8	1140.1	1147.2
30°	1049.8	1062.2	1078.1	1110.0	1117.1
32.5°	1009.1	1019.7	1044.5	1078.1	1088.8
35°	968.4	979.0	1009.1	1046.3	1056.9
37.5°	922.3	938.3	973.7	1010.9	1023.3
40°	879.9	894.0	931.2	977.2	991.4
42.5°	833.8	848.0	888.7	940.1	956.0
45°	787.8	803.7	849.8	901.1	918.8
47.5°	740.0	757.7	805.5	862.2	878.1
50°	690.4	709.9	763.0	821.4	828.5
52.5°	640.9	662.1	718.8	770.1	777.2
55°	591.3	612.5	674.5	718.8	715.2
57.5°	543.5	566.5	630.2	653.3	649.7
60°	493.9	518.7	575.4	586.0	573.6
62.5°	447.9	470.9	524.0	515.2	499.2
65°	398.3	421.3	465.6	447.9	424.9
67.5°	348.8	377.1	405.4	375.3	357.6
70°	299.2	331.1	343.4	313.4	297.4
72.5°	251.4	285.0	281.5	251.4	240.8
75°	205.4	233.7	226.6	196.5	185.9
77.5°	155.8	187.7	171.7	146.9	138.1
80°	109.8	138.1	120.4	99.1	92.1
82.5°	72.6	92.1	74.4	58.4	53.1
85°	38.9	47.8	33.6	28.3	26.6
87.5°	15.9	14.2	12.4	12.4	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)