

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: P258632

Luminaire Tested: **14CZ-LD5-39-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258632  
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-LD5-39-UNV-L82765-W2A1-U-2700K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3580.0 lumens  
Efficiency: N/A  
Efficacy: 115.6 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

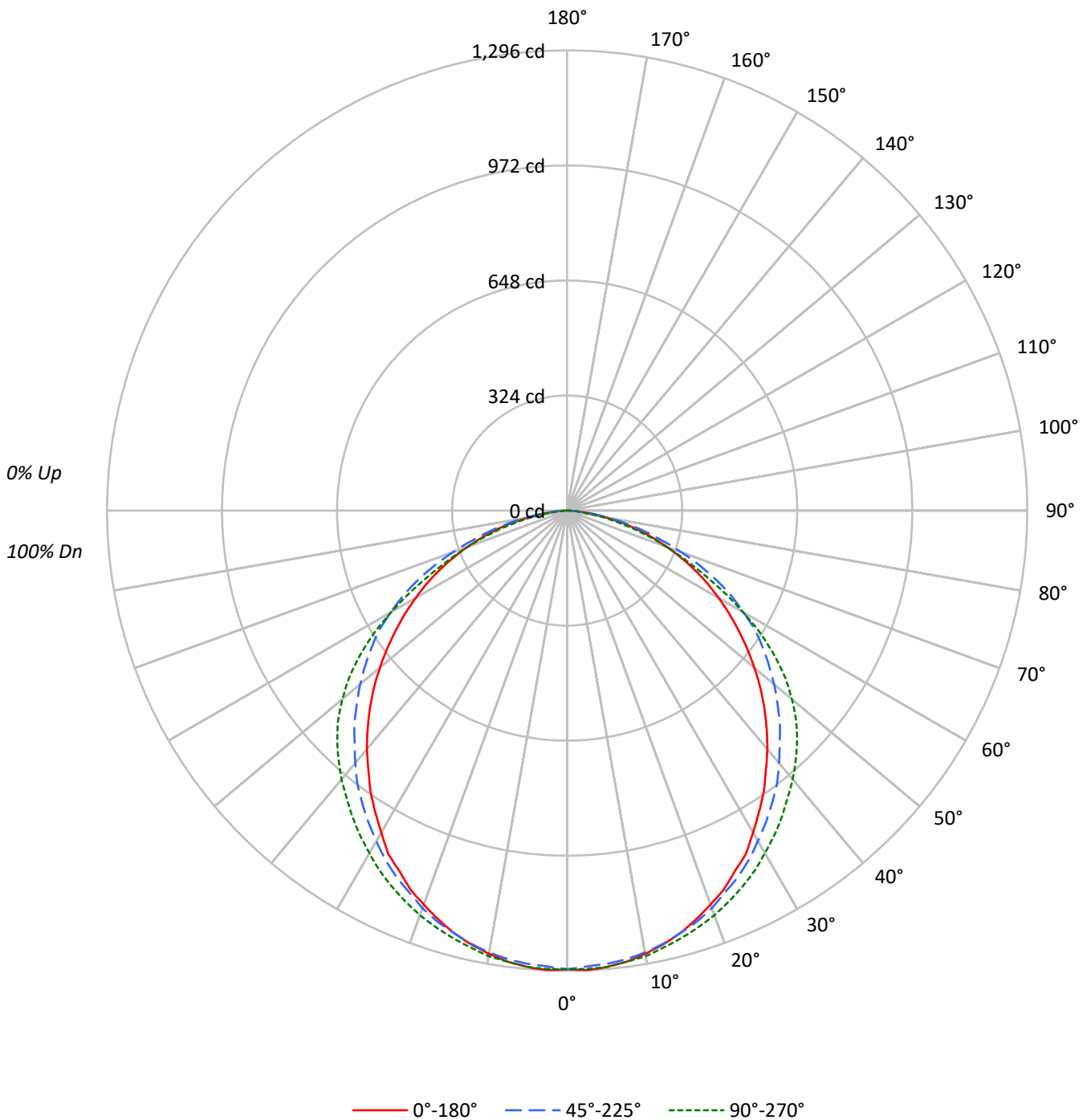
Input Watts (W): 30.969  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	3476	3476	3476
5°	3485	3461	3485
10°	3463	3453	3482
15°	3432	3432	3471
20°	3381	3412	3472
25°	3322	3380	3469
30°	3252	3340	3461
35°	3171	3305	3461
40°	3081	3261	3472
45°	2989	3224	3486
50°	2882	3185	3458
55°	2766	3155	3345
60°	2650	3087	3077
65°	2528	2956	2697
70°	2347	2694	2333
75°	2128	2349	1927
80°	1695	1860	1423
85°	1198	1034	818



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.2	3.4
10°-20°	349.2	9.8
20°-30°	526.5	14.7
30°-40°	631.1	17.6
40°-50°	655.0	18.3
50°-60°	590.7	16.5
60°-70°	430.9	12.0
70°-80°	226.1	6.3
80°-90°	48.2	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°	998.0	27.9
0°-40°	1629.1	45.5
0°-60°	2874.8	80.3
0°-90°	3580.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3580.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1292	1292	1292	1292	1292	
5°	1290	1287	1281	1290	1290	122
15°	1232	1232	1232	1246	1246	347
25°	1119	1124	1138	1163	1168	516
35°	965	976	1006	1043	1054	603
45°	785	801	847	898	916	605
55°	590	611	672	717	713	528
65°	397	420	464	446	424	392
75°	205	233	226	196	185	215
85°	39	48	34	28	26	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1291.9	1291.9	1291.9	1291.9	1291.9
2.5°	1295.5	1291.9	1284.9	1291.9	1291.9
5°	1290.2	1286.6	1281.3	1290.2	1290.2
7.5°	1281.3	1277.8	1274.3	1283.1	1281.3
10°	1267.2	1265.4	1263.7	1274.3	1274.3
12.5°	1251.3	1251.3	1249.6	1261.9	1260.2
15°	1231.9	1231.9	1231.9	1246.0	1246.0
17.5°	1207.2	1210.7	1214.3	1230.1	1230.1
20°	1180.7	1184.3	1191.3	1210.7	1212.5
22.5°	1154.3	1156.0	1163.1	1186.0	1191.3
25°	1119.0	1124.3	1138.4	1163.1	1168.4
27.5°	1090.7	1092.5	1108.4	1136.6	1143.7
30°	1046.6	1059.0	1074.8	1106.6	1113.7
32.5°	1006.0	1016.6	1041.3	1074.8	1085.4
35°	965.4	976.0	1006.0	1043.1	1053.7
37.5°	919.5	935.4	970.7	1007.8	1020.1
40°	877.2	891.3	928.3	974.2	988.4
42.5°	831.3	845.4	886.0	937.2	953.1
45°	785.4	801.3	847.2	898.3	916.0
47.5°	737.7	755.4	803.0	859.5	875.4
50°	688.3	707.7	760.7	818.9	826.0
52.5°	638.9	660.1	716.6	767.7	774.8
55°	589.5	610.7	672.4	716.6	713.0
57.5°	541.8	564.8	628.3	651.3	647.7
60°	492.4	517.1	573.6	584.2	571.8
62.5°	446.5	469.5	522.4	513.6	497.7
65°	397.1	420.1	464.2	446.5	423.6
67.5°	347.7	375.9	404.2	374.2	356.5
70°	298.3	330.0	342.4	312.4	296.5
72.5°	250.6	284.2	280.6	250.6	240.0
75°	204.7	233.0	225.9	195.9	185.3
77.5°	155.3	187.1	171.2	146.5	137.7
80°	109.4	137.7	120.0	98.8	91.8
82.5°	72.4	91.8	74.1	58.2	52.9
85°	38.8	47.7	33.5	28.2	26.5
87.5°	15.9	14.1	12.4	12.4	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)