

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: P258694

Luminaire Tested: **14CZ-LD5-39-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258694  
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-L92765-W2A1-U-6500K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3702.0 lumens  
Efficiency: N/A  
Efficacy: 114.1 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

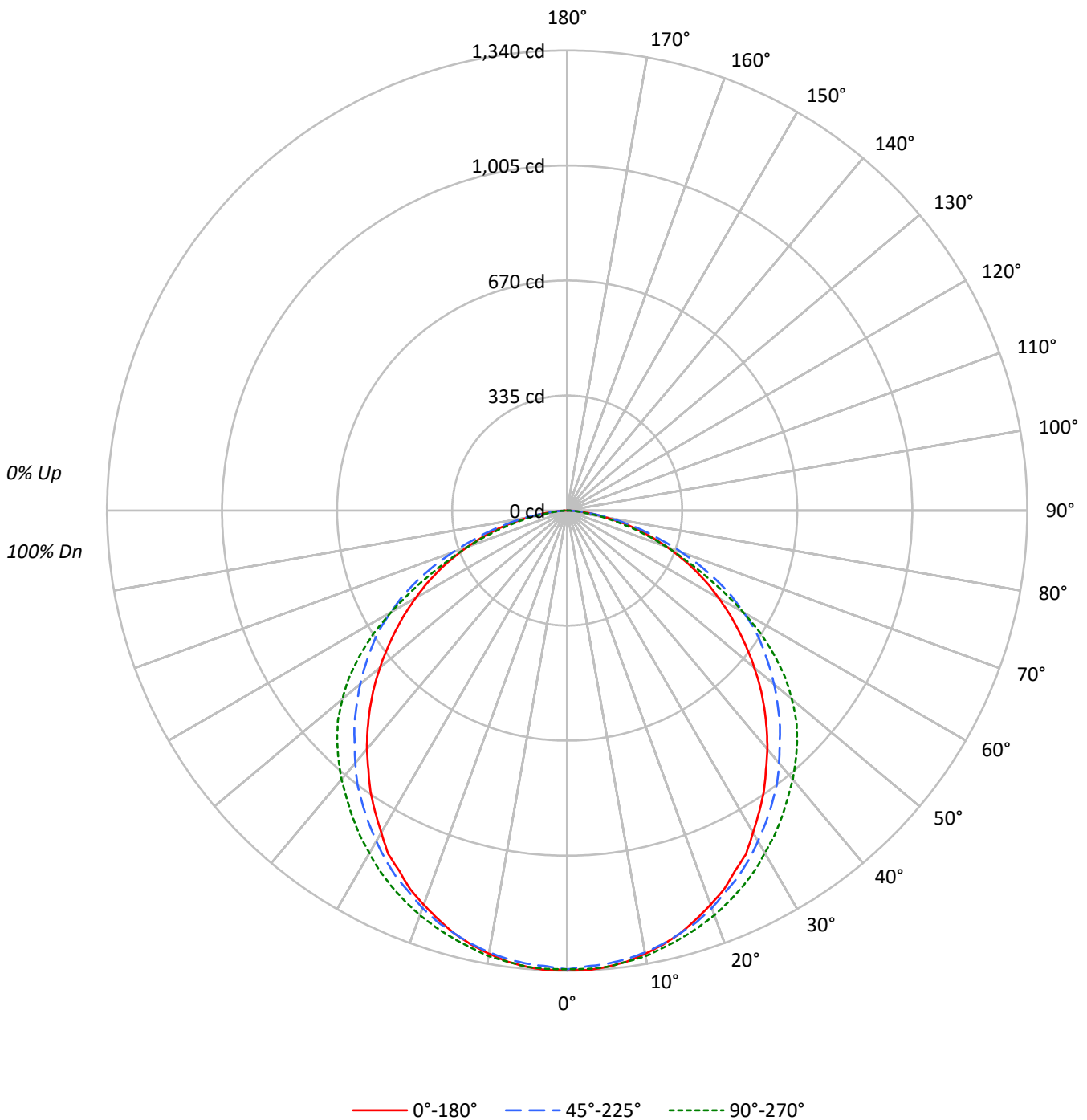
Input Watts (W): 32.457  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3595	3595	3595
5°	3604	3579	3604
10°	3581	3571	3601
15°	3549	3549	3590
20°	3497	3528	3590
25°	3436	3495	3587
30°	3363	3454	3578
35°	3279	3417	3579
40°	3186	3372	3590
45°	3091	3334	3605
50°	2980	3293	3576
55°	2860	3262	3459
60°	2740	3192	3182
65°	2614	3056	2789
70°	2426	2786	2412
75°	2201	2429	1992
80°	1754	1923	1471
85°	1241	1071	846



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.4	3.4
10°-20°	361.1	9.8
20°-30°	544.5	14.7
30°-40°	652.6	17.6
40°-50°	677.3	18.3
50°-60°	610.9	16.5
60°-70°	445.6	12.0
70°-80°	233.8	6.3
80°-90°	49.9	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°	1032.0	27.9
0°-40°	1684.6	45.5
0°-60°	2972.7	80.3
0°-90°	3702.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3702.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1336	1336	1336	1336	1336	
5°	1334	1330	1325	1334	1334	127
15°	1274	1274	1274	1288	1288	359
25°	1157	1163	1177	1203	1208	534
35°	998	1009	1040	1079	1090	624
45°	812	829	876	929	947	626
55°	610	632	695	741	737	546
65°	411	434	480	462	438	406
75°	212	241	234	203	192	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°	1335.9	1335.9	1335.9	1335.9	1335.9
2.5°	1339.6	1335.9	1328.6	1335.9	1335.9
5°	1334.1	1330.5	1325.0	1334.1	1334.1
7.5°	1325.0	1321.3	1317.7	1326.8	1325.0
10°	1310.4	1308.6	1306.7	1317.7	1317.7
12.5°	1294.0	1294.0	1292.1	1304.9	1303.1
15°	1273.9	1273.9	1273.9	1288.5	1288.5
17.5°	1248.3	1252.0	1255.6	1272.1	1272.1
20°	1221.0	1224.6	1231.9	1252.0	1253.8
22.5°	1193.6	1195.4	1202.7	1226.4	1231.9
25°	1157.1	1162.6	1177.2	1202.7	1208.2
27.5°	1127.9	1129.7	1146.1	1175.3	1182.6
30°	1082.3	1095.0	1111.5	1144.3	1151.6
32.5°	1040.3	1051.2	1076.8	1111.5	1122.4
35°	998.3	1009.3	1040.3	1078.6	1089.6
37.5°	950.9	967.3	1003.8	1042.1	1054.9
40°	907.1	921.7	960.0	1007.4	1022.0
42.5°	859.6	874.2	916.2	969.1	985.5
45°	812.2	828.6	876.0	929.0	947.2
47.5°	762.9	781.1	830.4	888.8	905.2
50°	711.8	731.9	786.6	846.8	854.1
52.5°	660.7	682.6	741.0	793.9	801.2
55°	609.6	631.5	695.3	741.0	737.3
57.5°	560.3	584.0	649.7	673.4	669.8
60°	509.2	534.7	593.1	604.1	591.3
62.5°	461.7	485.5	540.2	531.1	514.7
65°	410.6	434.4	480.0	461.7	438.0
67.5°	359.5	388.7	417.9	386.9	368.7
70°	308.4	341.3	354.1	323.0	306.6
72.5°	259.2	293.8	290.2	259.2	248.2
75°	211.7	240.9	233.6	202.6	191.6
77.5°	160.6	193.5	177.0	151.5	142.4
80°	113.2	142.4	124.1	102.2	94.9
82.5°	74.8	94.9	76.7	60.2	54.8
85°	40.2	49.3	34.7	29.2	27.4
87.5°	16.4	14.6	12.8	12.8	11.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)