

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: P258700

Luminaire Tested: **14CZ-LD5-44-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258700  
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-LD5-44-UNV-L92765-W2A1-U-5000K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4031.0 lumens  
Efficiency: N/A  
Efficacy: 110.6 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

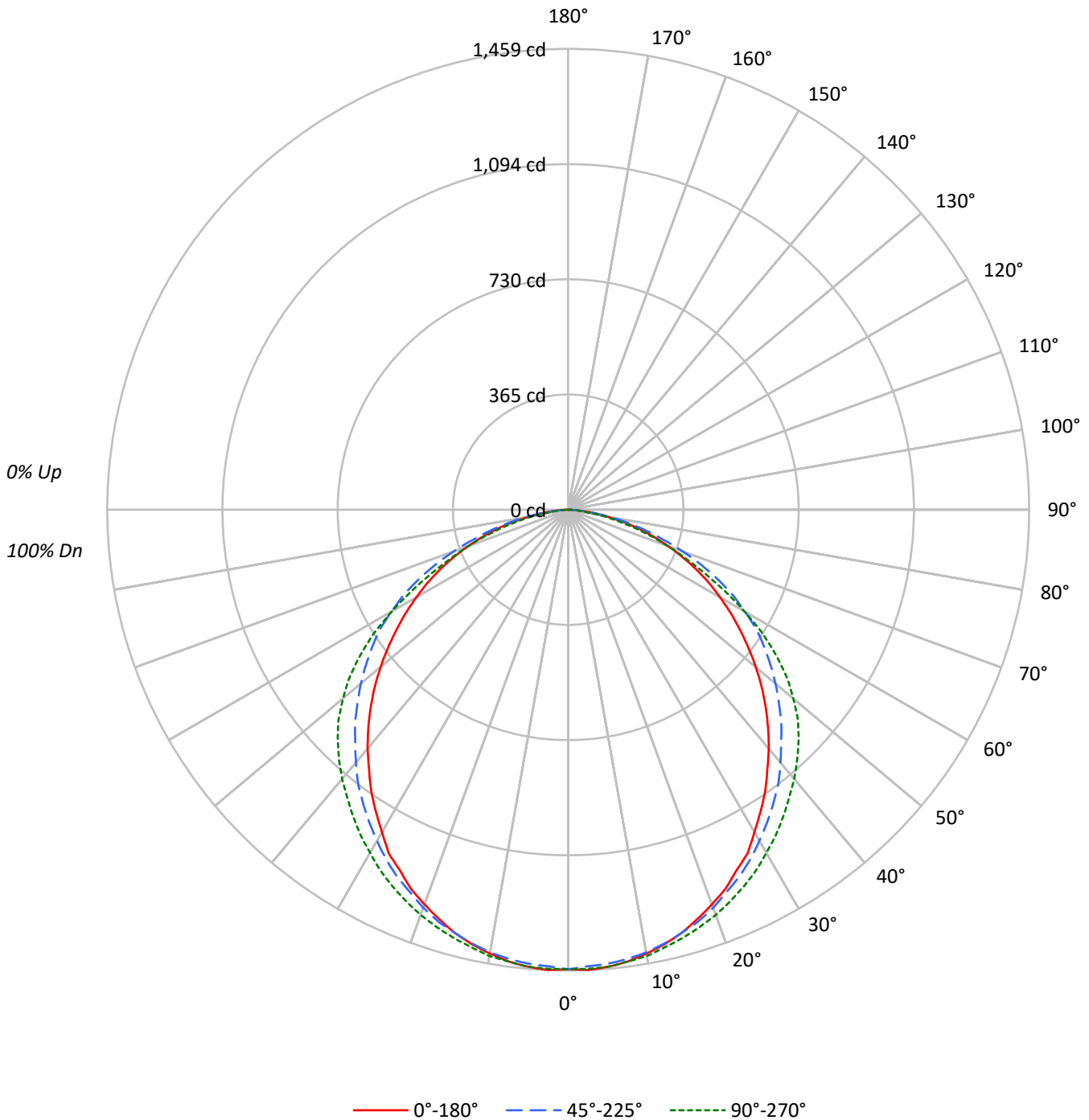
Input Watts (W): 36.456  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3915	3915	3915
5°	3924	3897	3924
10°	3899	3888	3921
15°	3864	3864	3909
20°	3807	3841	3909
25°	3741	3806	3906
30°	3662	3760	3897
35°	3571	3721	3897
40°	3470	3672	3909
45°	3365	3630	3925
50°	3244	3586	3893
55°	3114	3552	3767
60°	2984	3476	3465
65°	2847	3328	3037
70°	2642	3033	2627
75°	2397	2645	2170
80°	1909	2094	1601
85°	1349	1167	920



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.6	3.4
10°-20°	393.2	9.8
20°-30°	592.8	14.7
30°-40°	710.6	17.6
40°-50°	737.5	18.3
50°-60°	665.2	16.5
60°-70°	485.2	12.0
70°-80°	254.6	6.3
80°-90°	54.3	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°	1123.7	27.9
0°-40°	1834.3	45.5
0°-60°	3236.9	80.3
0°-90°	4031.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4031.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1455	1455	1455	1455	1455	
5°	1453	1449	1443	1453	1453	138
15°	1387	1387	1387	1403	1403	391
25°	1260	1266	1282	1310	1316	581
35°	1087	1099	1133	1174	1186	679
45°	884	902	954	1012	1031	682
55°	664	688	757	807	803	594
65°	447	473	523	503	477	442
75°	230	262	254	221	209	242
85°	44	54	38	32	30	56
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1454.7	1454.7	1454.7	1454.7	1454.7
2.5°	1458.6	1454.7	1446.7	1454.7	1454.7
5°	1452.7	1448.7	1442.8	1452.7	1452.7
7.5°	1442.8	1438.8	1434.8	1444.7	1442.8
10°	1426.9	1424.9	1422.9	1434.8	1434.8
12.5°	1409.0	1409.0	1407.0	1420.9	1418.9
15°	1387.1	1387.1	1387.1	1403.0	1403.0
17.5°	1359.3	1363.3	1367.2	1385.1	1385.1
20°	1329.5	1333.5	1341.4	1363.3	1365.2
22.5°	1299.7	1301.7	1309.6	1335.4	1341.4
25°	1259.9	1265.9	1281.8	1309.6	1315.6
27.5°	1228.1	1230.1	1248.0	1279.8	1287.7
30°	1178.4	1192.4	1210.2	1246.0	1254.0
32.5°	1132.7	1144.7	1172.5	1210.2	1222.2
35°	1087.0	1099.0	1132.7	1174.5	1186.4
37.5°	1035.4	1053.2	1093.0	1134.7	1148.6
40°	987.7	1003.6	1045.3	1097.0	1112.9
42.5°	936.0	951.9	997.6	1055.2	1073.1
45°	884.3	902.2	953.9	1011.5	1031.4
47.5°	830.7	850.5	904.2	967.8	985.7
50°	775.0	796.9	856.5	922.1	930.0
52.5°	719.4	743.2	806.8	864.5	872.4
55°	663.7	687.6	757.1	806.8	802.9
57.5°	610.1	635.9	707.5	733.3	729.3
60°	554.4	582.3	645.9	657.8	643.9
62.5°	502.8	528.6	588.2	578.3	560.4
65°	447.1	473.0	522.6	502.8	476.9
67.5°	391.5	423.3	455.1	421.3	401.4
70°	335.8	371.6	385.5	351.7	333.9
72.5°	282.2	319.9	316.0	282.2	270.3
75°	230.5	262.3	254.4	220.6	208.7
77.5°	174.9	210.6	192.8	164.9	155.0
80°	123.2	155.0	135.1	111.3	103.3
82.5°	81.5	103.3	83.5	65.6	59.6
85°	43.7	53.7	37.8	31.8	29.8
87.5°	17.9	15.9	13.9	13.9	11.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)