

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: P275491

Luminaire Tested: **14CZ2-39-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275491  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-39-UNV-L82765-W2A1-U-5700K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER  
WITH RIBBED LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4010.0 lumens  
Efficiency: N/A  
Efficacy: 126.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

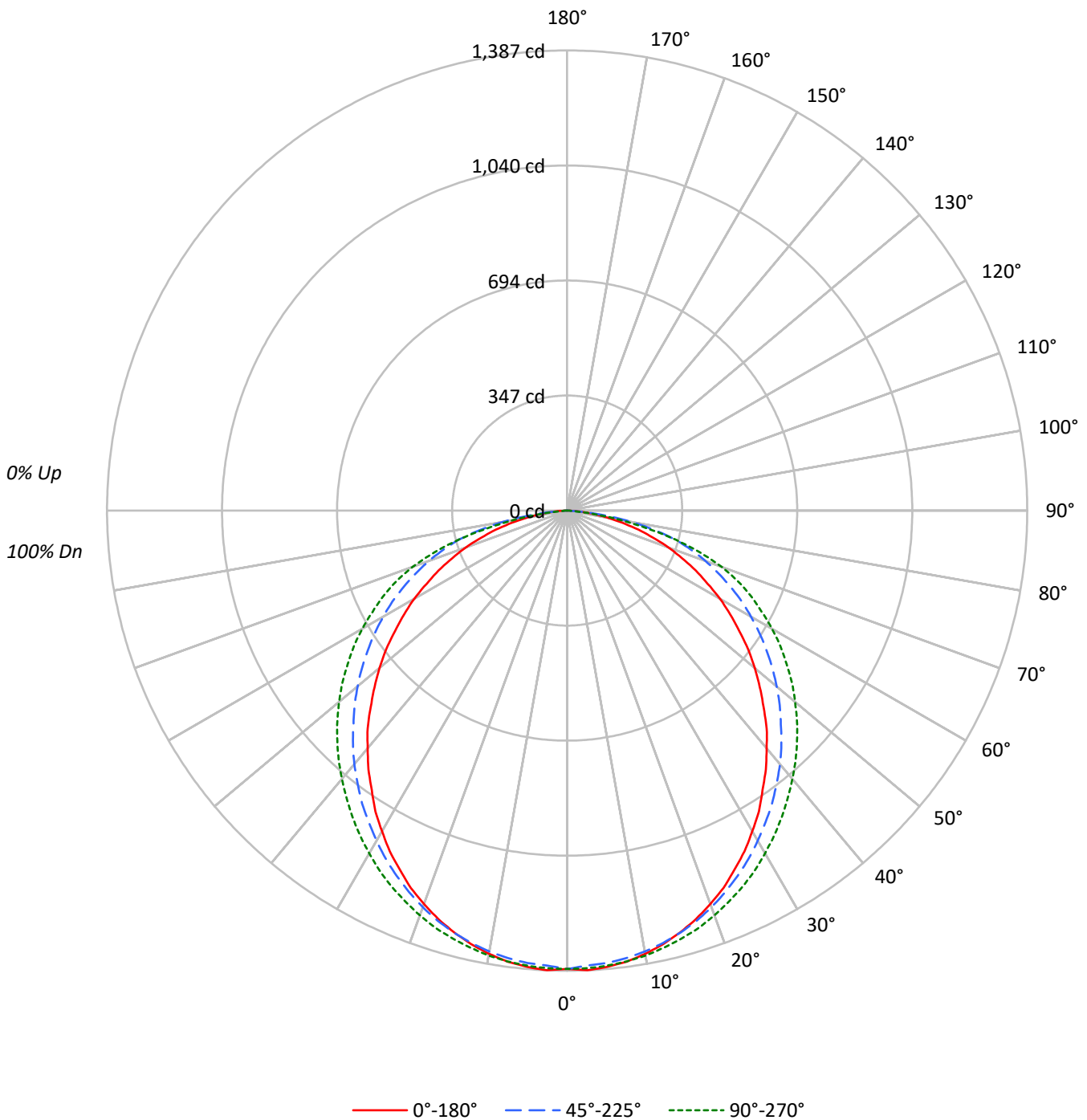
Input Watts (W): 31.806  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

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

	0°	45°	90°
0°	3718	3718	3718
5°	3729	3698	3720
10°	3706	3687	3721
15°	3667	3669	3719
20°	3613	3644	3718
25°	3544	3608	3714
30°	3467	3570	3706
35°	3375	3539	3704
40°	3286	3505	3710
45°	3185	3467	3730
50°	3092	3451	3754
55°	2974	3440	3788
60°	2868	3446	3840
65°	2721	3456	3900
70°	2554	3482	3898
75°	2314	3514	3524
80°	1898	3034	2507
85°	1408	1436	580



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.7	3.3
10°-20°	373.4	9.3
20°-30°	562.5	14.0
30°-40°	675.0	16.8
40°-50°	703.6	17.5
50°-60°	651.3	16.2
60°-70°	526.3	13.1
70°-80°	320.9	8.0
80°-90°	66.3	1.7
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°	1066.7	26.6
0°-40°	1741.7	43.4
0°-60°	3096.6	77.2
0°-90°	4010.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4010.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1382	1382	1382	1382	1382	
5°	1381	1377	1369	1379	1377	131
15°	1316	1317	1317	1335	1335	371
25°	1194	1201	1215	1246	1251	550
35°	1027	1044	1077	1117	1128	644
45°	837	862	911	962	980	647
55°	634	667	733	790	807	568
65°	427	469	543	597	612	423
75°	223	272	338	343	339	234
85°	46	68	46	26	19	56
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1381.5	1381.5	1381.5	1381.5	1381.5
2.5°	1386.8	1382.4	1372.5	1382.4	1380.6
5°	1380.6	1377.0	1368.9	1378.8	1377.0
7.5°	1371.6	1368.0	1360.9	1372.5	1370.7
10°	1356.4	1354.6	1349.3	1362.7	1361.8
12.5°	1338.5	1337.6	1335.0	1350.2	1349.3
15°	1316.2	1317.1	1317.1	1335.0	1335.0
17.5°	1291.1	1292.9	1296.5	1316.2	1318.9
20°	1261.6	1265.2	1272.4	1294.7	1298.3
22.5°	1231.2	1233.9	1244.7	1271.5	1275.1
25°	1193.7	1200.8	1215.1	1245.5	1250.9
27.5°	1157.9	1164.2	1183.9	1215.1	1224.1
30°	1115.9	1125.7	1149.0	1183.0	1192.8
32.5°	1075.7	1086.4	1113.2	1152.6	1161.5
35°	1027.4	1043.5	1077.4	1116.8	1127.5
37.5°	983.6	998.8	1037.2	1080.1	1092.6
40°	935.3	954.1	997.9	1043.5	1056.0
42.5°	890.6	908.5	955.8	1002.3	1019.3
45°	836.9	862.0	911.1	962.1	980.0
47.5°	787.7	812.8	869.1	923.7	939.7
50°	738.6	765.4	824.4	880.7	896.8
52.5°	687.6	716.2	779.7	836.0	854.8
55°	634.0	667.0	733.2	790.4	807.4
57.5°	583.0	617.0	687.6	745.7	762.7
60°	532.9	567.8	640.2	695.6	713.5
62.5°	477.5	518.6	593.7	648.3	661.7
65°	427.4	469.4	542.7	597.3	612.5
67.5°	374.6	420.2	493.6	543.6	557.9
70°	324.6	372.0	442.6	489.1	495.4
72.5°	270.9	319.2	390.7	420.2	420.2
75°	222.6	271.8	338.0	343.4	338.9
77.5°	169.9	224.4	267.4	256.6	245.9
80°	122.5	176.1	195.8	176.1	161.8
82.5°	82.3	127.9	118.0	93.9	83.2
85°	45.6	68.0	46.5	25.9	18.8
87.5°	17.0	15.2	4.5	4.5	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)