

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: P275415

Luminaire Tested: **14CZ2-44-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275415  
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: 14CZ2-44-UNV-L83050-W2A1-U-4000K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4515.0 lumens  
Efficiency: N/A  
Efficacy: 123.8 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

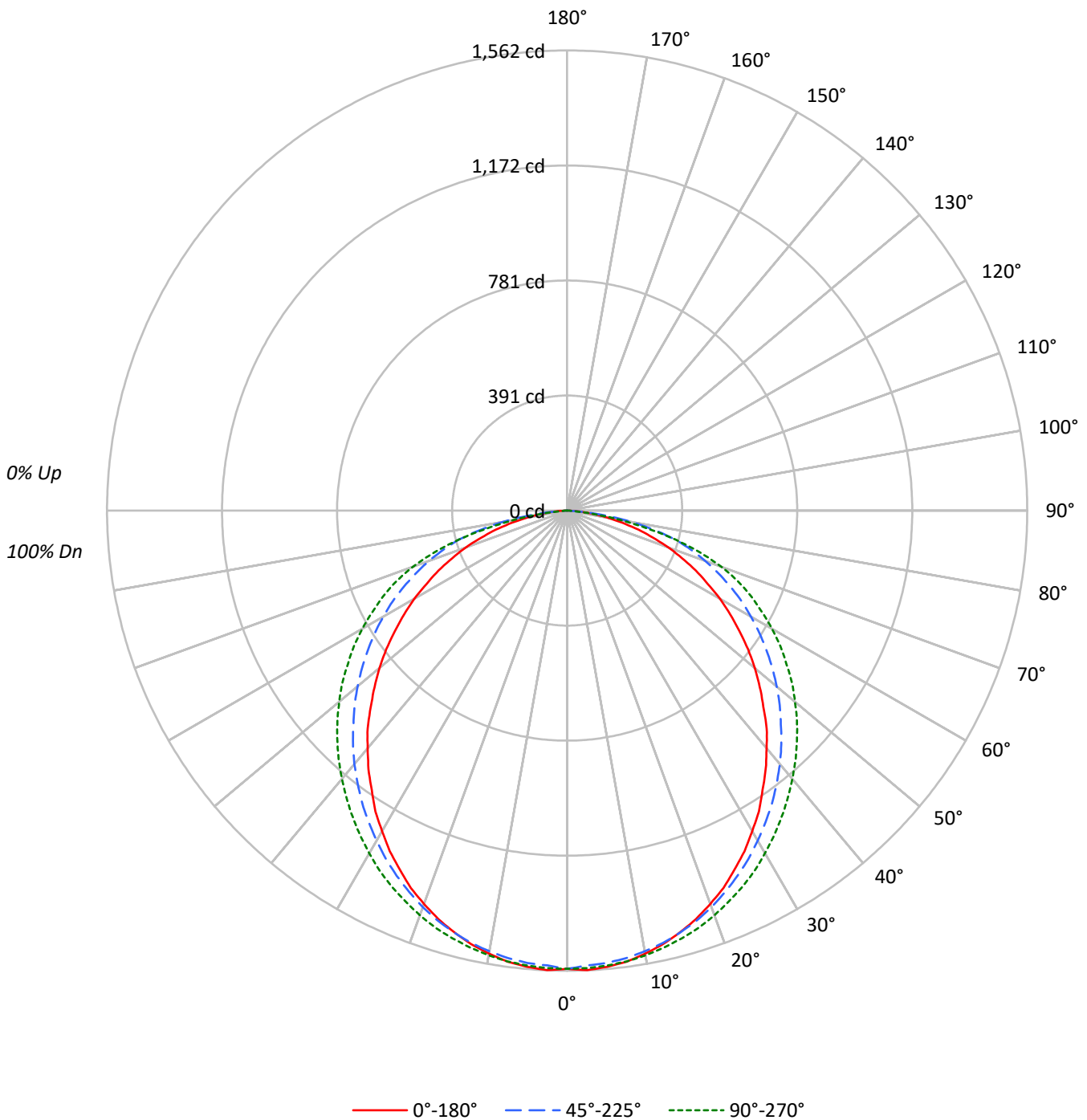
Input Watts (W): 36.456  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	4186	4186	4186
5°	4199	4163	4188
10°	4173	4151	4190
15°	4128	4131	4187
20°	4068	4103	4186
25°	3991	4062	4182
30°	3904	4020	4173
35°	3800	3985	4170
40°	3699	3947	4177
45°	3586	3904	4199
50°	3481	3886	4227
55°	3349	3873	4265
60°	3229	3879	4324
65°	3064	3891	4391
70°	2876	3921	4388
75°	2607	3957	3968
80°	2137	3417	2824
85°	1584	1618	651



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.2	3.3
10°-20°	420.4	9.3
20°-30°	633.4	14.0
30°-40°	760.0	16.8
40°-50°	792.2	17.5
50°-60°	733.4	16.2
60°-70°	592.5	13.1
70°-80°	361.3	8.0
80°-90°	74.6	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°	1201.0	26.6
0°-40°	1961.0	43.4
0°-60°	3486.6	77.2
0°-90°	4515.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4515.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1555	1555	1555	1555	1555	
5°	1554	1550	1541	1552	1550	148
15°	1482	1483	1483	1503	1503	418
25°	1344	1352	1368	1402	1408	619
35°	1157	1175	1213	1257	1270	725
45°	942	970	1026	1083	1103	728
55°	714	751	826	890	909	640
65°	481	528	611	672	690	476
75°	251	306	381	387	382	263
85°	51	76	52	29	21	63
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1555.4	1555.4	1555.4	1555.4	1555.4
2.5°	1561.5	1556.4	1545.4	1556.4	1554.4
5°	1554.4	1550.4	1541.3	1552.4	1550.4
7.5°	1544.4	1540.3	1532.3	1545.4	1543.4
10°	1527.2	1525.2	1519.2	1534.3	1533.3
12.5°	1507.1	1506.1	1503.1	1520.2	1519.2
15°	1481.9	1482.9	1482.9	1503.1	1503.1
17.5°	1453.8	1455.8	1459.8	1481.9	1485.0
20°	1420.5	1424.6	1432.6	1457.8	1461.8
22.5°	1386.3	1389.3	1401.4	1431.6	1435.6
25°	1344.0	1352.1	1368.2	1402.4	1408.4
27.5°	1303.7	1310.8	1332.9	1368.2	1378.2
30°	1256.4	1267.5	1293.7	1331.9	1343.0
32.5°	1211.1	1223.2	1253.4	1297.7	1307.8
35°	1156.8	1174.9	1213.1	1257.4	1269.5
37.5°	1107.4	1124.5	1167.8	1216.2	1230.3
40°	1053.1	1074.2	1123.5	1174.9	1189.0
42.5°	1002.7	1022.9	1076.2	1128.6	1147.7
45°	942.3	970.5	1025.9	1083.3	1103.4
47.5°	886.9	915.1	978.6	1040.0	1058.1
50°	831.6	861.8	928.2	991.7	1009.8
52.5°	774.2	806.4	877.9	941.3	962.5
55°	713.8	751.0	825.5	890.0	909.1
57.5°	656.4	694.7	774.2	839.6	858.8
60°	600.0	639.3	720.8	783.3	803.4
62.5°	537.6	583.9	668.5	729.9	745.0
65°	481.2	528.5	611.1	672.5	689.6
67.5°	421.8	473.2	555.7	612.1	628.2
70°	365.5	418.8	498.3	550.7	557.7
72.5°	305.0	359.4	440.0	473.2	473.2
75°	250.7	306.1	380.6	386.6	381.6
77.5°	191.3	252.7	301.0	288.9	276.9
80°	137.9	198.3	220.5	198.3	182.2
82.5°	92.6	144.0	132.9	105.7	93.6
85°	51.3	76.5	52.4	29.2	21.1
87.5°	19.1	17.1	5.0	5.0	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)