

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: P275554

Luminaire Tested: **14CZ2-44-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275554  
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-L92765-W2A1-U-5700K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4053.0 lumens  
Efficiency: N/A  
Efficacy: 110.3 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

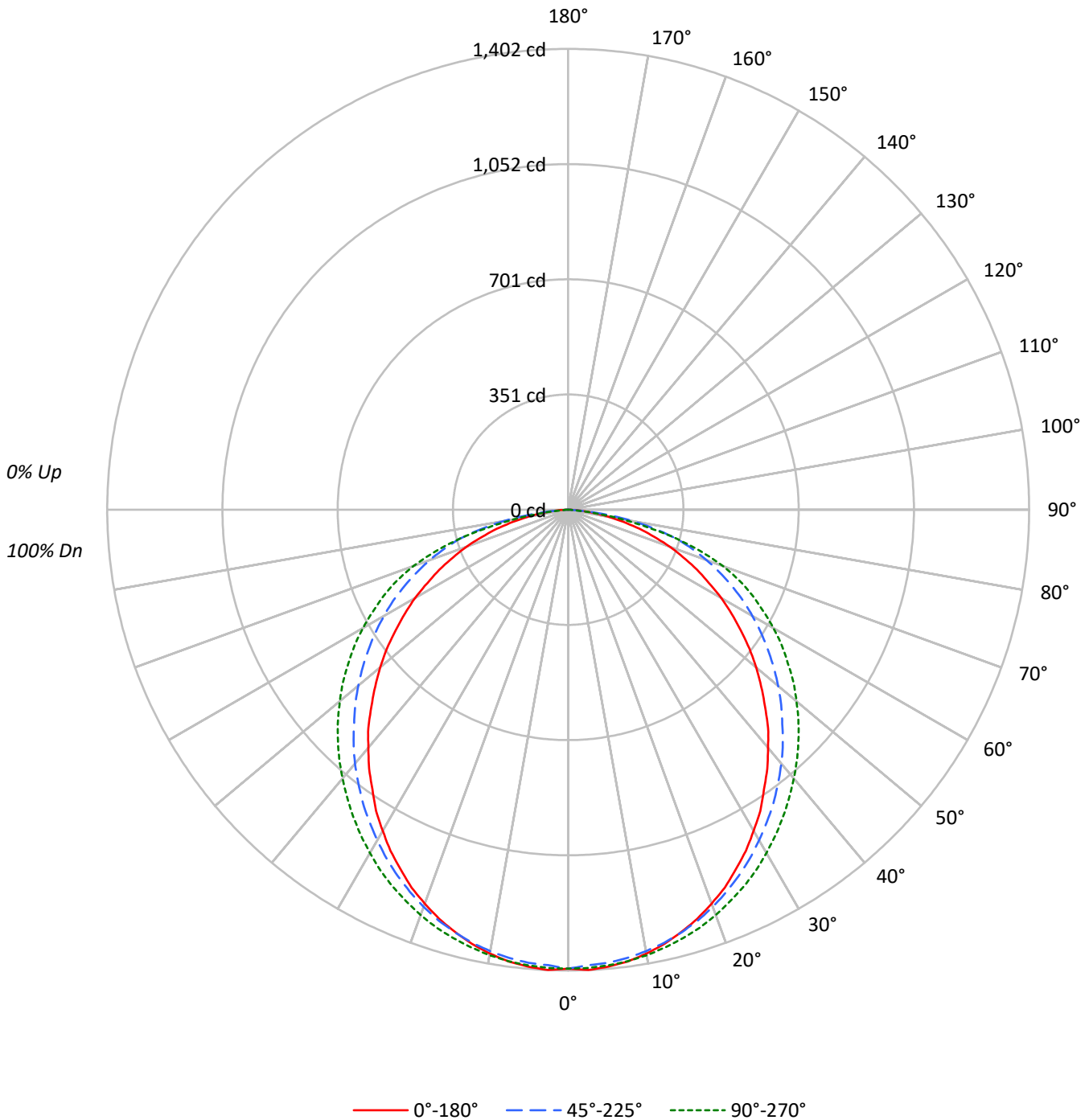
Input Watts (W): 36.735  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32					32			
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24					24			

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

	0°	45°	90°
0°	3757	3757	3757
5°	3769	3737	3760
10°	3746	3726	3761
15°	3706	3709	3759
20°	3652	3683	3758
25°	3582	3647	3754
30°	3505	3608	3746
35°	3411	3577	3744
40°	3321	3543	3749
45°	3219	3505	3769
50°	3125	3488	3795
55°	3006	3477	3829
60°	2899	3483	3881
65°	2751	3493	3942
70°	2581	3519	3939
75°	2339	3552	3561
80°	1918	3067	2535
85°	1423	1451	587



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.1	3.3
10°-20°	377.4	9.3
20°-30°	568.6	14.0
30°-40°	682.3	16.8
40°-50°	711.1	17.5
50°-60°	658.3	16.2
60°-70°	531.9	13.1
70°-80°	324.3	8.0
80°-90°	66.9	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°	1078.1	26.6
0°-40°	1760.4	43.4
0°-60°	3129.8	77.2
0°-90°	4053.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4053.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1396	1396	1396	1396	1396	
5°	1395	1392	1384	1394	1392	132
15°	1330	1331	1331	1349	1349	375
25°	1206	1214	1228	1259	1264	556
35°	1038	1055	1089	1129	1140	650
45°	846	871	921	972	990	654
55°	641	674	741	799	816	574
65°	432	474	549	604	619	427
75°	225	275	342	347	342	236
85°	46	69	47	26	19	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1396.3	1396.3	1396.3	1396.3	1396.3
2.5°	1401.7	1397.2	1387.2	1397.2	1395.4
5°	1395.4	1391.8	1383.6	1393.6	1391.8
7.5°	1386.3	1382.7	1375.5	1387.2	1385.4
10°	1371.0	1369.2	1363.7	1377.3	1376.4
12.5°	1352.9	1352.0	1349.3	1364.6	1363.7
15°	1330.3	1331.2	1331.2	1349.3	1349.3
17.5°	1305.0	1306.8	1310.4	1330.3	1333.0
20°	1275.2	1278.8	1286.0	1308.6	1312.2
22.5°	1244.4	1247.2	1258.0	1285.1	1288.7
25°	1206.5	1213.7	1228.2	1258.9	1264.3
27.5°	1170.3	1176.7	1196.5	1228.2	1237.2
30°	1127.9	1137.8	1161.3	1195.6	1205.6
32.5°	1087.2	1098.0	1125.2	1164.9	1174.0
35°	1038.4	1054.7	1089.0	1128.8	1139.6
37.5°	994.1	1009.5	1048.3	1091.7	1104.4
40°	945.3	964.3	1008.6	1054.7	1067.3
42.5°	900.1	918.2	966.1	1013.1	1030.3
45°	845.9	871.2	920.9	972.4	990.5
47.5°	796.2	821.5	878.4	933.6	949.8
50°	746.5	773.6	833.2	890.2	906.4
52.5°	695.0	723.9	788.1	845.0	864.0
55°	640.7	674.2	741.1	798.9	816.1
57.5°	589.2	623.6	695.0	753.7	770.9
60°	538.6	573.9	647.1	703.1	721.2
62.5°	482.6	524.2	600.1	655.2	668.8
65°	432.0	474.5	548.6	603.7	619.1
67.5°	378.7	424.8	498.9	549.5	563.9
70°	328.1	376.0	447.3	494.3	500.7
72.5°	273.8	322.6	394.9	424.8	424.8
75°	225.0	274.7	341.6	347.0	342.5
77.5°	171.7	226.8	270.2	259.4	248.5
80°	123.8	178.0	197.9	178.0	163.6
82.5°	83.1	129.2	119.3	94.9	84.0
85°	46.1	68.7	47.0	26.2	19.0
87.5°	17.2	15.4	4.5	4.5	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)