

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: P275490

Luminaire Tested: **14CZ2-39-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275490  
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-5500K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER  
WITH RIBBED LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3999.0 lumens  
Efficiency: N/A  
Efficacy: 125.7 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

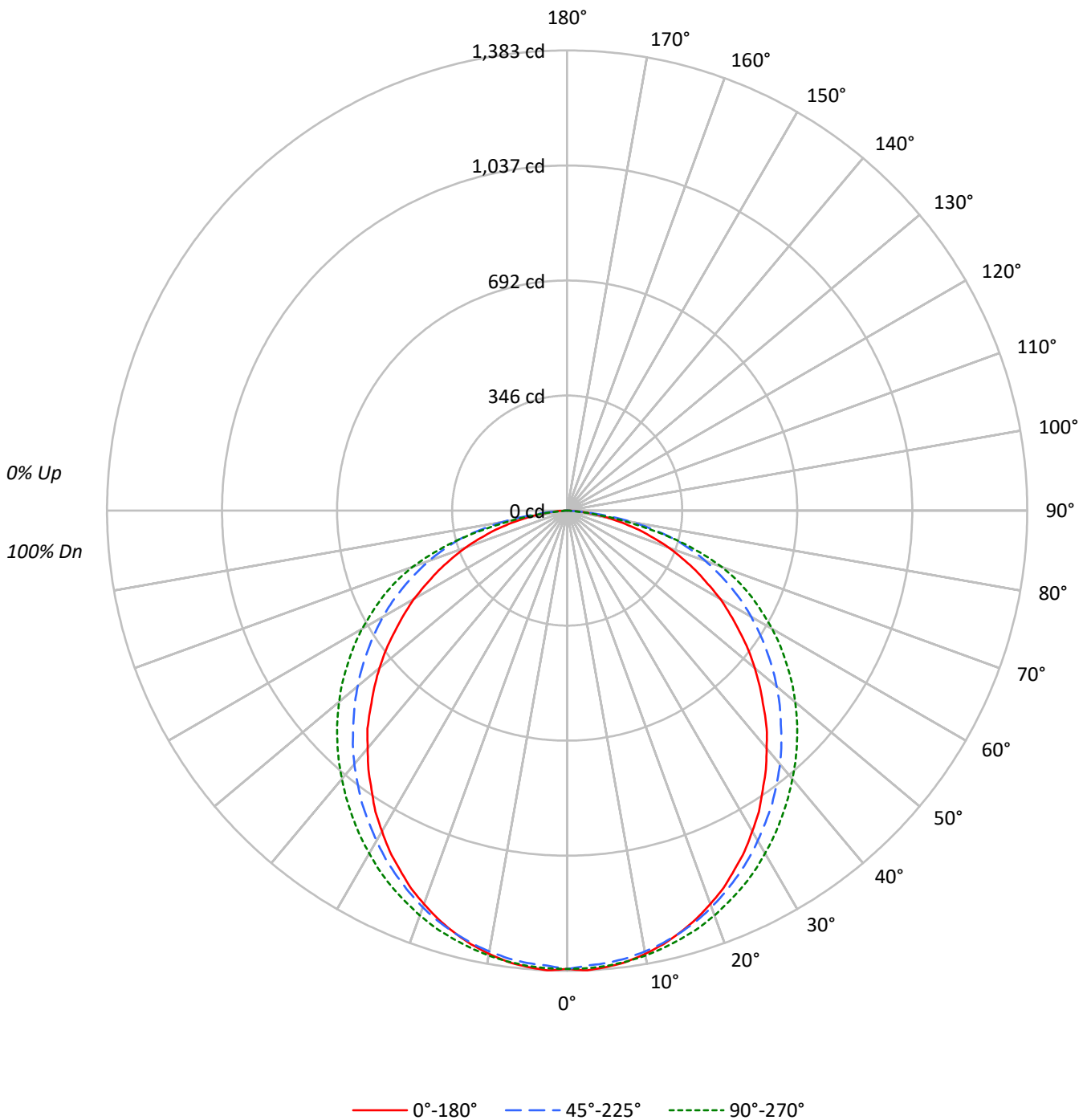
Input Watts (W): 31.806  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	3707	3707	3707
5°	3719	3688	3709
10°	3696	3677	3711
15°	3657	3659	3709
20°	3603	3634	3708
25°	3534	3598	3704
30°	3458	3560	3696
35°	3366	3530	3694
40°	3276	3496	3699
45°	3176	3458	3719
50°	3083	3442	3744
55°	2966	3430	3778
60°	2861	3436	3830
65°	2714	3447	3889
70°	2547	3473	3887
75°	2308	3505	3514
80°	1894	3027	2501
85°	1405	1433	577



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.4	3.3
10°-20°	372.4	9.3
20°-30°	561.0	14.0
30°-40°	673.2	16.8
40°-50°	701.6	17.5
50°-60°	649.6	16.2
60°-70°	524.8	13.1
70°-80°	320.0	8.0
80°-90°	66.1	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°	1063.7	26.6
0°-40°	1736.9	43.4
0°-60°	3088.1	77.2
0°-90°	3999.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3999.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1378	1378	1378	1378	1378	
5°	1377	1373	1365	1375	1373	131
15°	1313	1314	1314	1331	1331	370
25°	1190	1198	1212	1242	1248	549
35°	1025	1041	1074	1114	1124	642
45°	835	860	909	960	977	645
55°	632	665	731	788	805	566
65°	426	468	541	596	611	421
75°	222	271	337	342	338	233
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°	1377.7	1377.7	1377.7	1377.7	1377.7
2.5°	1383.0	1378.6	1368.8	1378.6	1376.8
5°	1376.8	1373.2	1365.2	1375.0	1373.2
7.5°	1367.9	1364.3	1357.2	1368.8	1367.0
10°	1352.7	1350.9	1345.6	1358.9	1358.1
12.5°	1334.9	1334.0	1331.3	1346.5	1345.6
15°	1312.6	1313.5	1313.5	1331.3	1331.3
17.5°	1287.6	1289.4	1293.0	1312.6	1315.2
20°	1258.2	1261.7	1268.9	1291.2	1294.7
22.5°	1227.9	1230.5	1241.2	1268.0	1271.6
25°	1190.4	1197.5	1211.8	1242.1	1247.5
27.5°	1154.7	1161.0	1180.6	1211.8	1220.7
30°	1112.8	1122.6	1145.8	1179.7	1189.5
32.5°	1072.7	1083.4	1110.2	1149.4	1158.3
35°	1024.6	1040.6	1074.5	1113.7	1124.4
37.5°	980.9	996.0	1034.4	1077.2	1089.7
40°	932.7	951.4	995.1	1040.6	1053.1
42.5°	888.1	906.0	953.2	999.6	1016.5
45°	834.6	859.6	908.6	959.5	977.3
47.5°	785.6	810.6	866.7	921.1	937.2
50°	736.5	763.3	822.1	878.3	894.4
52.5°	685.7	714.2	777.6	833.7	852.5
55°	632.2	665.2	731.2	788.3	805.2
57.5°	581.4	615.3	685.7	743.7	760.6
60°	531.5	566.2	638.5	693.7	711.6
62.5°	476.2	517.2	592.1	646.5	659.9
65°	426.2	468.1	541.3	595.7	610.8
67.5°	373.6	419.1	492.2	542.2	556.4
70°	323.7	370.9	441.4	487.8	494.0
72.5°	270.2	318.3	389.7	419.1	419.1
75°	222.0	271.1	337.1	342.4	338.0
77.5°	169.4	223.8	266.6	255.9	245.2
80°	122.2	175.7	195.3	175.7	161.4
82.5°	82.0	127.5	117.7	93.6	82.9
85°	45.5	67.8	46.4	25.9	18.7
87.5°	16.9	15.2	4.5	4.5	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)