

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: P275495

Luminaire Tested: **14CZ2-44-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275495  
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-L82765-W2A1-U-3500K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4199.0 lumens  
Efficiency: N/A  
Efficacy: 117.3 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

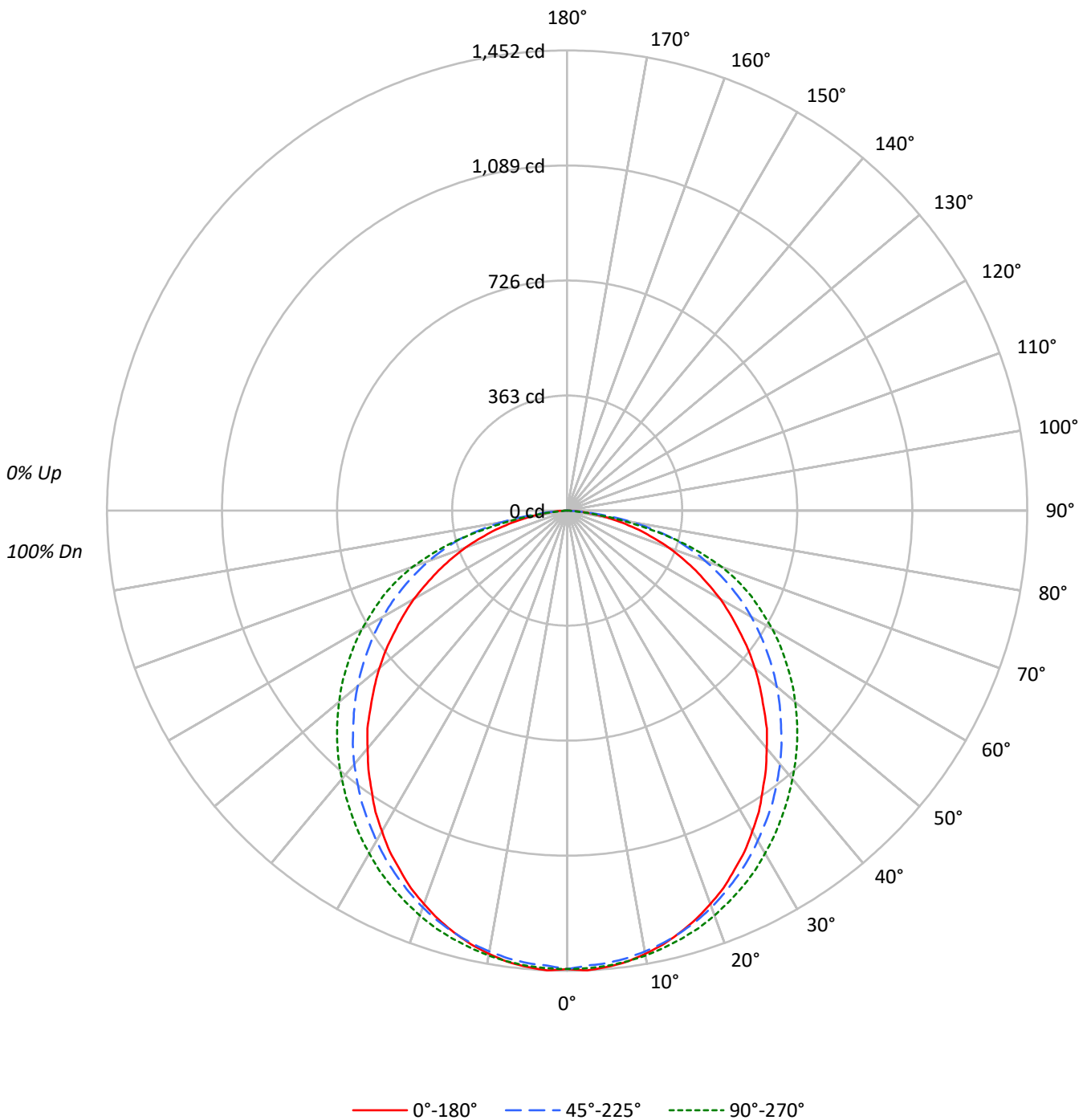
Input Watts (W): 35.805  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3893	3893	3893
5°	3905	3872	3895
10°	3881	3861	3897
15°	3840	3842	3894
20°	3783	3815	3893
25°	3711	3778	3889
30°	3631	3738	3881
35°	3534	3706	3879
40°	3440	3671	3884
45°	3335	3631	3905
50°	3238	3614	3931
55°	3114	3602	3967
60°	3003	3608	4021
65°	2849	3619	4084
70°	2674	3647	4081
75°	2424	3680	3690
80°	1988	3177	2627
85°	1476	1504	608



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.9	3.3
10°-20°	391.0	9.3
20°-30°	589.0	14.0
30°-40°	706.8	16.8
40°-50°	736.7	17.5
50°-60°	682.0	16.2
60°-70°	551.1	13.1
70°-80°	336.0	8.0
80°-90°	69.4	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°	1116.9	26.6
0°-40°	1823.8	43.4
0°-60°	3242.6	77.2
0°-90°	4199.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4199.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1447	1447	1447	1447	1447	
5°	1446	1442	1434	1444	1442	137
15°	1378	1379	1379	1398	1398	389
25°	1250	1257	1272	1304	1310	576
35°	1076	1093	1128	1169	1181	674
45°	876	903	954	1007	1026	677
55°	664	698	768	828	846	595
65°	448	492	568	625	641	443
75°	233	285	354	360	355	245
85°	48	71	49	27	20	59
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1446.6	1446.6	1446.6	1446.6	1446.6
2.5°	1452.2	1447.5	1437.2	1447.5	1445.6
5°	1445.6	1441.9	1433.5	1443.8	1441.9
7.5°	1436.3	1432.5	1425.0	1437.2	1435.3
10°	1420.4	1418.5	1412.9	1426.9	1426.0
12.5°	1401.6	1400.7	1397.9	1413.8	1412.9
15°	1378.2	1379.2	1379.2	1397.9	1397.9
17.5°	1352.0	1353.9	1357.6	1378.2	1381.0
20°	1321.1	1324.9	1332.3	1355.7	1359.5
22.5°	1289.3	1292.1	1303.3	1331.4	1335.2
25°	1249.9	1257.4	1272.4	1304.3	1309.9
27.5°	1212.5	1219.1	1239.6	1272.4	1281.8
30°	1168.5	1178.8	1203.1	1238.7	1249.0
32.5°	1126.4	1137.6	1165.7	1206.9	1216.2
35°	1075.8	1092.7	1128.2	1169.4	1180.7
37.5°	1029.9	1045.8	1086.1	1131.0	1144.1
40°	979.4	999.0	1044.9	1092.7	1105.8
42.5°	932.5	951.3	1000.9	1049.6	1067.4
45°	876.4	902.6	954.1	1007.4	1026.2
47.5°	824.9	851.1	910.1	967.2	984.0
50°	773.4	801.5	863.3	922.2	939.1
52.5°	720.0	750.0	816.4	875.4	895.1
55°	663.8	698.5	767.8	827.7	845.5
57.5°	610.5	646.0	720.0	780.9	798.7
60°	558.0	594.5	670.4	728.4	747.2
62.5°	500.0	543.0	621.7	678.8	692.9
65°	447.5	491.6	568.3	625.4	641.4
67.5°	392.3	440.1	516.8	569.3	584.2
70°	339.9	389.5	463.5	512.2	518.7
72.5°	283.7	334.3	409.2	440.1	440.1
75°	233.1	284.6	353.9	359.5	354.9
77.5°	177.9	235.0	280.0	268.7	257.5
80°	128.3	184.4	205.0	184.4	169.5
82.5°	86.1	133.9	123.6	98.3	87.1
85°	47.8	71.2	48.7	27.2	19.7
87.5°	17.8	15.9	4.7	4.7	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)