

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: P275845

Luminaire Tested: **14CZ2-20-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275845  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-20-RDP-UNV-L92765-W2A1-U-5700K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1257.0 lumens  
Efficiency: N/A  
Efficacy: 79.5 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

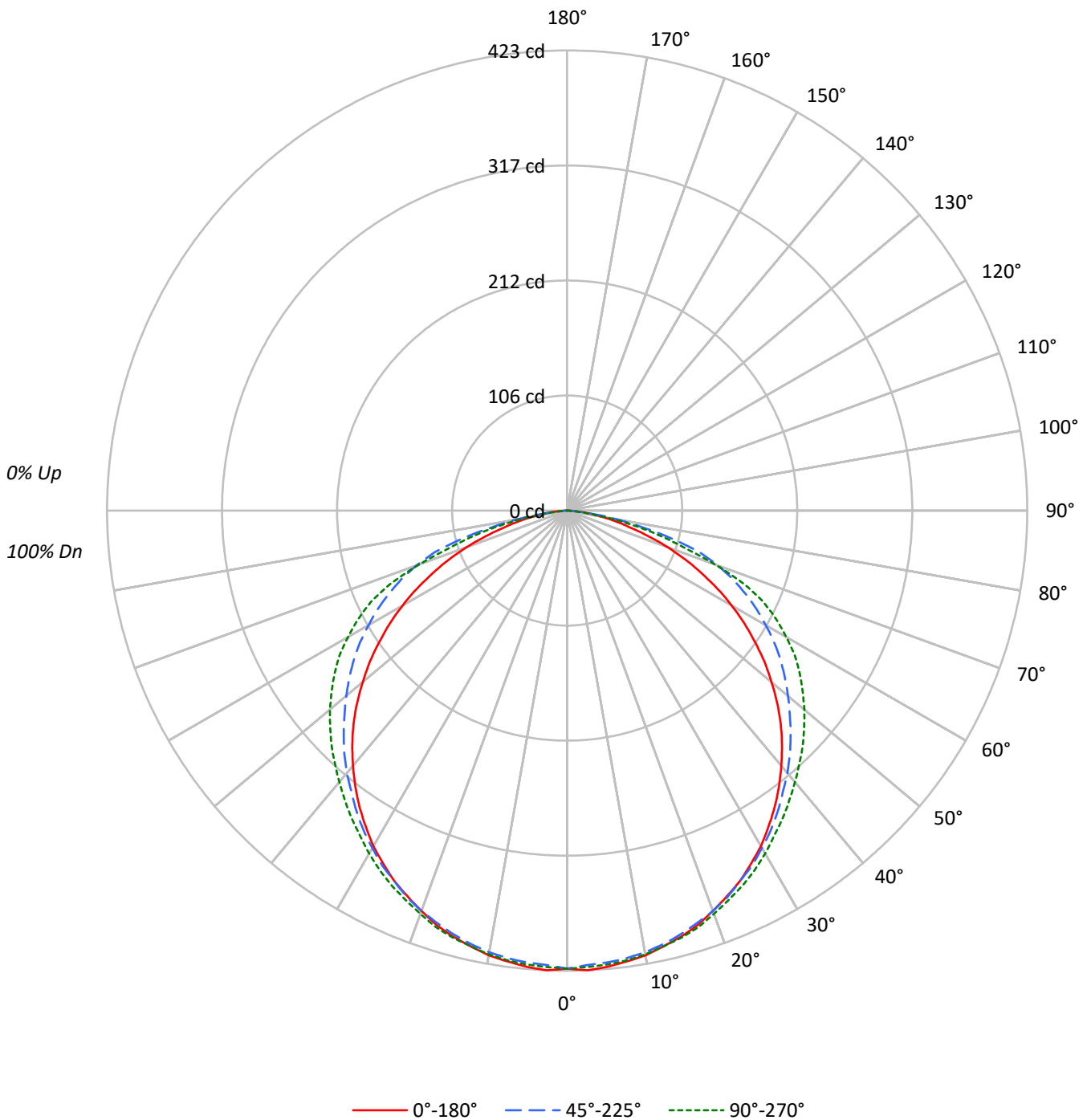
Input Watts (W): 15.81  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	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	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

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

	0°	45°	90°
0°	1133	1133	1133
5°	1137	1127	1132
10°	1134	1126	1132
15°	1129	1124	1132
20°	1121	1121	1130
25°	1116	1116	1131
30°	1107	1113	1131
35°	1093	1109	1135
40°	1076	1107	1144
45°	1057	1106	1165
50°	1027	1109	1191
55°	990	1124	1225
60°	940	1136	1252
65°	869	1150	1268
70°	772	1158	1135
75°	623	1041	908
80°	487	730	594
85°	333	213	151



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.8	3.2
10°-20°	114.3	9.1
20°-30°	174.1	13.8
30°-40°	212.0	16.9
40°-50°	225.0	17.9
50°-60°	212.3	16.9
60°-70°	171.4	13.6
70°-80°	93.0	7.4
80°-90°	15.1	1.2
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°	328.3	26.1
0°-40°	540.3	43.0
0°-60°	977.6	77.8
0°-90°	1257.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1257.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	421	421	421	421	421	
5°	421	420	417	420	419	40
15°	405	404	403	406	406	114
25°	376	375	376	380	381	173
35°	333	335	338	344	345	208
45°	278	282	290	301	306	214
55°	211	220	240	255	261	188
65°	136	153	181	195	199	135
75°	60	87	100	90	87	65
85°	11	12	7	6	5	14
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	421.0	421.0	421.0	421.0	421.0
2.5°	423.0	421.0	418.1	421.0	420.0
5°	421.0	420.0	417.1	420.0	419.0
7.5°	418.1	418.1	415.1	417.1	417.1
10°	415.1	414.1	412.2	415.1	414.1
12.5°	410.2	409.2	408.2	411.2	410.2
15°	405.3	404.3	403.3	406.3	406.3
17.5°	399.4	398.4	397.4	401.4	401.4
20°	391.6	391.6	391.6	395.5	394.5
22.5°	383.7	383.7	384.7	388.6	387.6
25°	375.9	374.9	375.9	379.8	380.8
27.5°	366.0	367.0	368.0	371.9	372.9
30°	356.2	357.2	358.2	363.1	364.1
32.5°	344.5	346.4	348.4	354.3	354.3
35°	332.7	334.6	337.6	344.5	345.4
37.5°	319.9	321.9	325.8	333.7	335.6
40°	306.2	309.1	315.0	322.9	325.8
42.5°	292.4	296.4	303.2	312.1	316.0
45°	277.7	281.6	290.5	301.3	306.2
47.5°	262.0	266.9	277.7	291.5	295.4
50°	245.3	252.2	265.0	279.7	284.6
52.5°	228.7	236.5	252.2	267.9	272.8
55°	211.0	219.8	239.5	255.2	261.0
57.5°	193.3	203.1	225.7	242.4	248.3
60°	174.7	186.5	211.0	227.7	232.6
62.5°	156.0	169.8	196.3	213.0	216.9
65°	136.4	153.1	180.6	195.3	199.2
67.5°	117.8	137.4	164.9	175.7	175.7
70°	98.1	119.7	147.2	150.1	144.3
72.5°	78.5	103.0	127.6	116.8	111.9
75°	59.9	87.3	100.1	90.3	87.3
77.5°	45.1	70.7	70.7	64.8	62.8
80°	31.4	54.0	47.1	41.2	38.3
82.5°	20.6	30.4	24.5	19.6	16.7
85°	10.8	11.8	6.9	5.9	4.9
87.5°	3.9	2.0	1.0	2.0	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)