

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: P258991

Luminaire Tested: **14CZ-LD5-20-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258991  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35909)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ-LD5-20-RDP-UNV-L92765-W2A1-U-5000K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1307.0 lumens  
Efficiency: N/A  
Efficacy: 83.2 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

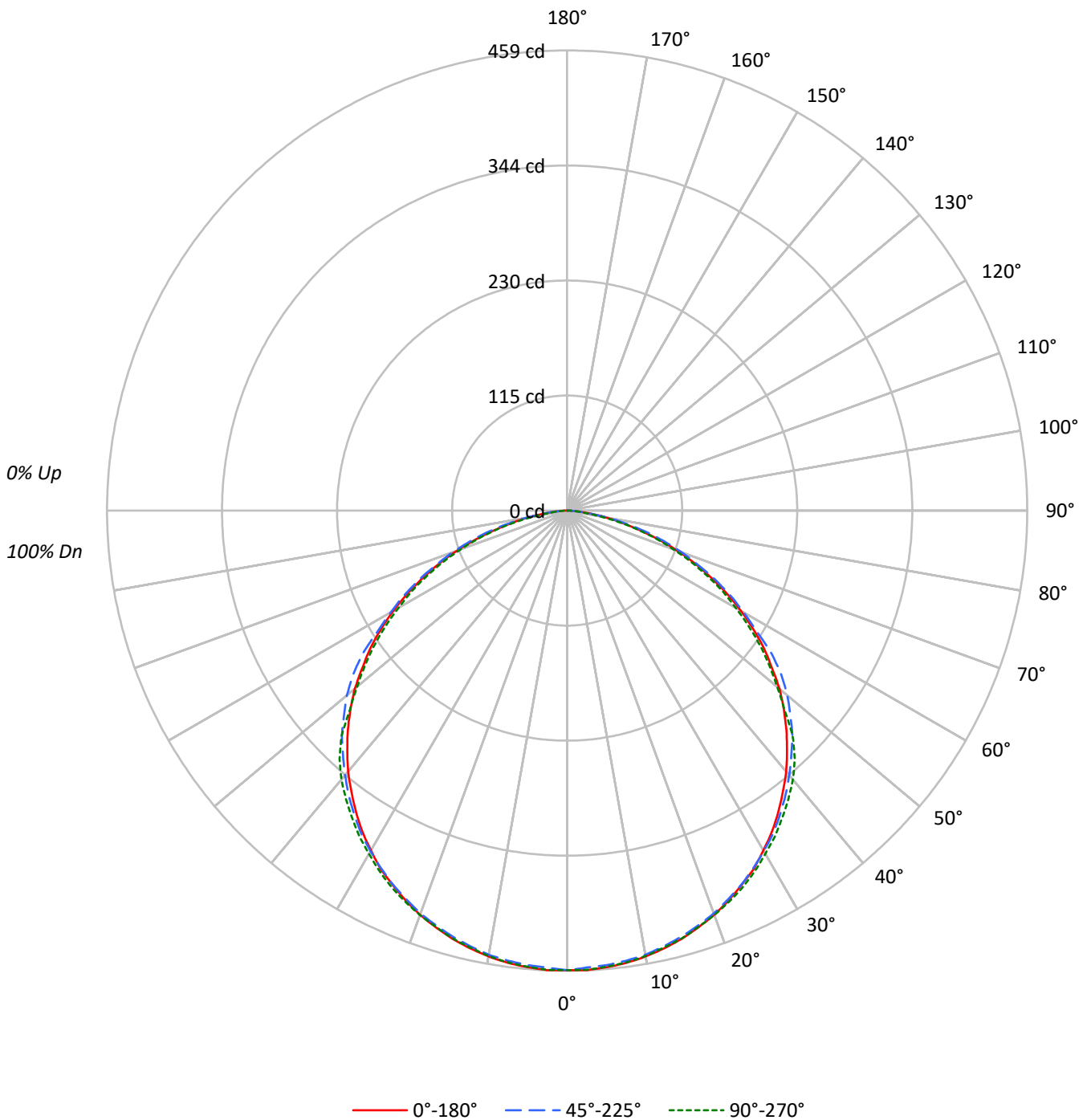
Input Watts (W): 15.717  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	47	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

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

	0°	45°	90°
0°	1234	1234	1234
5°	1235	1229	1234
10°	1234	1229	1233
15°	1232	1226	1231
20°	1229	1225	1230
25°	1223	1222	1231
30°	1216	1219	1228
35°	1206	1216	1229
40°	1194	1211	1230
45°	1177	1209	1211
50°	1158	1200	1145
55°	1125	1169	1103
60°	1077	1094	1046
65°	1009	1036	982
70°	918	955	888
75°	766	837	753
80°	607	640	522
85°	395	343	303



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.4	3.3
10°-20°	124.6	9.5
20°-30°	190.2	14.6
30°-40°	232.0	17.7
40°-50°	242.9	18.6
50°-60°	216.1	16.5
60°-70°	159.4	12.2
70°-80°	82.4	6.3
80°-90°	16.0	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°	358.3	27.4
0°-40°	590.2	45.2
0°-60°	1049.2	80.3
0°-90°	1307.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1307.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	458	458	458	458	458	
5°	457	457	455	457	457	43
15°	442	442	440	442	442	125
25°	412	412	412	414	414	190
35°	367	368	370	374	374	230
45°	309	311	318	321	318	238
55°	240	245	249	239	235	214
65°	158	170	163	157	154	157
75°	74	81	80	74	72	80
85°	13	14	11	10	10	17
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	458.4	458.4	458.4	458.4	458.4
2.5°	458.8	458.4	456.2	458.4	458.4
5°	457.1	456.7	455.0	456.7	456.7
7.5°	455.0	454.5	452.8	454.5	454.5
10°	451.6	451.1	449.9	451.6	451.1
12.5°	447.3	447.3	445.2	447.3	446.4
15°	442.2	441.8	440.1	441.8	441.8
17.5°	435.8	435.4	434.1	436.2	435.4
20°	429.0	428.6	427.7	429.8	429.4
22.5°	420.9	420.9	419.6	422.2	422.2
25°	411.9	411.9	411.5	414.5	414.5
27.5°	403.0	402.1	402.1	405.1	405.5
30°	391.5	391.5	392.3	395.7	395.3
32.5°	380.0	380.4	382.1	385.1	385.5
35°	367.2	367.6	370.2	374.4	374.0
37.5°	353.6	354.9	357.8	362.5	362.5
40°	339.9	340.8	344.6	349.7	350.2
42.5°	324.6	326.7	331.0	337.0	336.1
45°	309.3	311.4	317.8	320.8	318.2
47.5°	293.1	295.6	302.0	302.5	293.9
50°	276.5	279.5	286.7	278.2	273.5
52.5°	257.3	262.8	269.2	257.3	254.3
55°	239.8	244.9	249.2	238.6	235.1
57.5°	220.2	227.1	224.1	219.0	214.7
60°	200.2	207.5	203.2	198.1	194.3
62.5°	179.8	187.9	183.6	178.5	175.1
65°	158.5	169.5	162.7	157.2	154.2
67.5°	138.4	149.1	141.0	136.7	133.8
70°	116.7	125.7	121.4	115.9	112.9
72.5°	95.4	102.2	101.0	95.0	92.9
75°	73.7	81.4	80.5	74.1	72.4
77.5°	55.4	62.6	60.1	55.0	52.8
80°	39.2	43.9	41.3	35.4	33.7
82.5°	23.9	27.7	23.4	20.0	18.3
85°	12.8	14.1	11.1	10.2	9.8
87.5°	4.7	4.7	4.7	4.3	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)