

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: P258933

Luminaire Tested: **14CZ-LD5-20-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258933
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-L82765-W2A1-U-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1334.0 lumens
Efficiency: N/A
Efficacy: 87.5 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

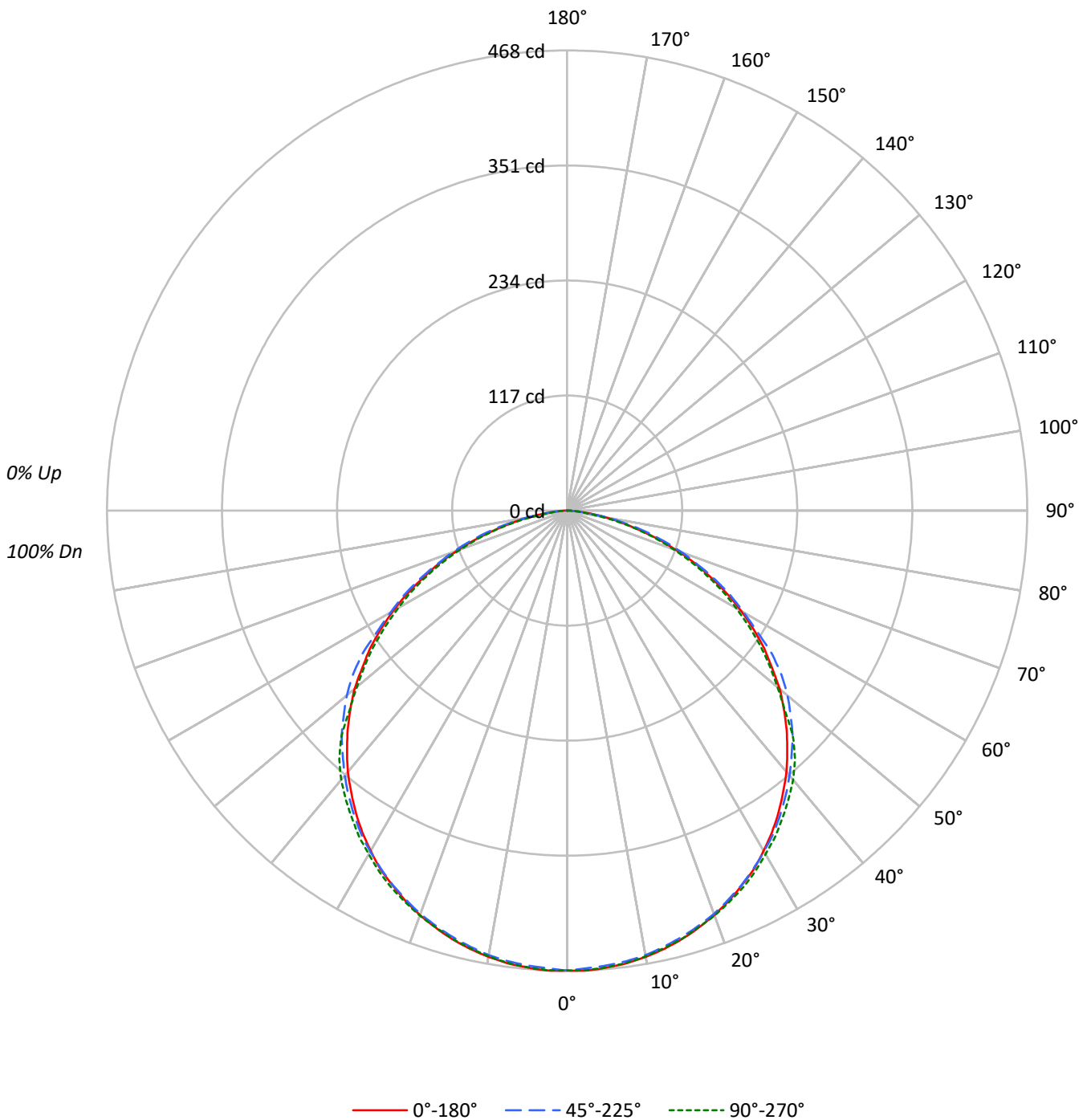
Input Watts (W): 15.252
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1259	1259	1259
5°	1260	1254	1259
10°	1259	1254	1258
15°	1257	1251	1256
20°	1254	1250	1255
25°	1248	1247	1256
30°	1242	1244	1254
35°	1231	1241	1254
40°	1219	1235	1255
45°	1201	1235	1236
50°	1181	1225	1168
55°	1148	1194	1126
60°	1100	1116	1067
65°	1030	1058	1002
70°	937	975	906
75°	782	855	768
80°	620	654	532
85°	401	349	309



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.3	3.3
10°-20°	127.2	9.5
20°-30°	194.2	14.6
30°-40°	236.8	17.7
40°-50°	247.9	18.6
50°-60°	220.5	16.5
60°-70°	162.7	12.2
70°-80°	84.1	6.3
80°-90°	16.3	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°	365.7	27.4
0°-40°	602.4	45.2
0°-60°	1070.9	80.3
0°-90°	1334.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1334.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	468	468	468	468	468	
5°	466	466	464	466	466	44
15°	451	451	449	451	451	127
25°	420	420	420	423	423	194
35°	375	375	378	382	382	234
45°	316	318	324	327	325	243
55°	245	250	254	244	240	218
65°	162	173	166	160	157	160
75°	75	83	82	76	74	81
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°	467.8	467.8	467.8	467.8	467.8
2.5°	468.3	467.8	465.7	467.8	467.8
5°	466.5	466.1	464.4	466.1	466.1
7.5°	464.4	463.9	462.2	463.9	463.9
10°	460.9	460.4	459.1	460.9	460.4
12.5°	456.5	456.5	454.4	456.5	455.7
15°	451.3	450.9	449.1	450.9	450.9
17.5°	444.8	444.4	443.1	445.2	444.4
20°	437.8	437.4	436.5	438.7	438.3
22.5°	429.6	429.6	428.3	430.9	430.9
25°	420.4	420.4	420.0	423.1	423.1
27.5°	411.3	410.4	410.4	413.5	413.9
30°	399.6	399.6	400.4	403.9	403.5
32.5°	387.8	388.3	390.0	393.1	393.5
35°	374.8	375.2	377.8	382.2	381.7
37.5°	360.9	362.2	365.2	370.0	370.0
40°	347.0	347.8	351.7	357.0	357.4
42.5°	331.3	333.5	337.8	343.9	343.1
45°	315.7	317.8	324.4	327.4	324.8
47.5°	299.1	301.7	308.3	308.7	300.0
50°	282.2	285.2	292.6	283.9	279.1
52.5°	262.6	268.3	274.8	262.6	259.6
55°	244.8	250.0	254.4	243.5	240.0
57.5°	224.8	231.7	228.7	223.5	219.1
60°	204.4	211.7	207.4	202.2	198.3
62.5°	183.5	191.7	187.4	182.2	178.7
65°	161.7	173.0	166.1	160.4	157.4
67.5°	141.3	152.2	143.9	139.6	136.5
70°	119.1	128.3	123.9	118.3	115.2
72.5°	97.4	104.4	103.0	97.0	94.8
75°	75.2	83.0	82.2	75.7	73.9
77.5°	56.5	63.9	61.3	56.1	53.9
80°	40.0	44.8	42.2	36.1	34.3
82.5°	24.3	28.3	23.9	20.4	18.7
85°	13.0	14.3	11.3	10.4	10.0
87.5°	4.8	4.8	4.8	4.3	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)