

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: P258992

Luminaire Tested: **14CZ-LD5-20-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258992
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-5500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1327.0 lumens
Efficiency: N/A
Efficacy: 83.9 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

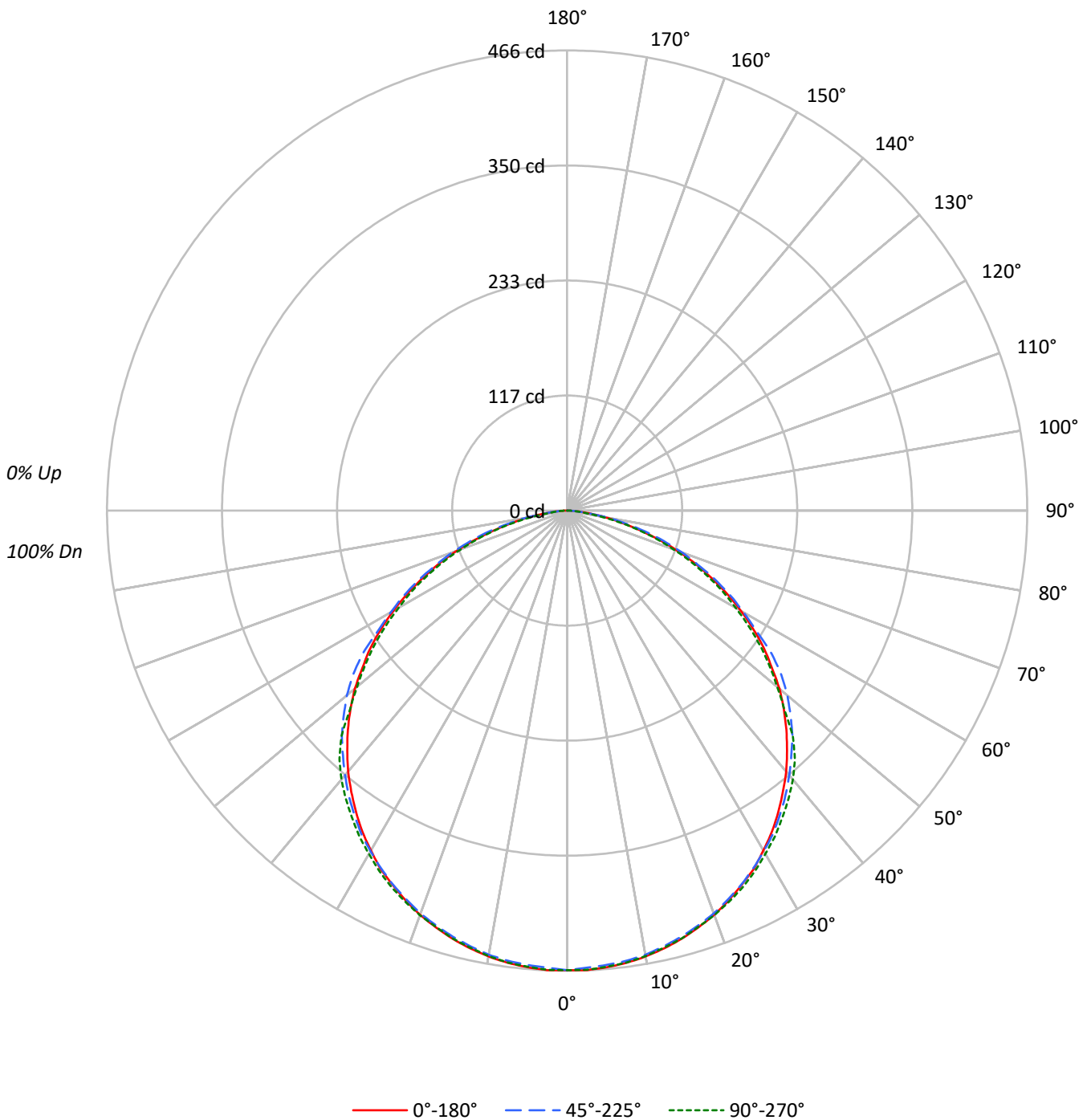
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1252	1252	1252
5°	1254	1248	1253
10°	1253	1248	1251
15°	1251	1245	1249
20°	1247	1243	1249
25°	1242	1241	1249
30°	1235	1238	1247
35°	1225	1235	1247
40°	1212	1229	1249
45°	1195	1228	1230
50°	1175	1219	1163
55°	1142	1187	1120
60°	1094	1110	1061
65°	1025	1052	997
70°	932	970	902
75°	778	849	764
80°	617	651	530
85°	401	346	306



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.1	3.3
10°-20°	126.5	9.5
20°-30°	193.2	14.6
30°-40°	235.5	17.7
40°-50°	246.6	18.6
50°-60°	219.4	16.5
60°-70°	161.9	12.2
70°-80°	83.6	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°	363.8	27.4
0°-40°	599.3	45.2
0°-60°	1065.3	80.3
0°-90°	1327.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1327.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	465	465	465	465	465	
5°	464	464	462	464	464	44
15°	449	448	447	448	448	127
25°	418	418	418	421	421	193
35°	373	373	376	380	380	233
45°	314	316	323	326	323	242
55°	244	249	253	242	239	217
65°	161	172	165	160	157	160
75°	75	83	82	75	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°	465.4	465.4	465.4	465.4	465.4
2.5°	465.8	465.4	463.2	465.4	465.4
5°	464.1	463.7	461.9	463.7	463.7
7.5°	461.9	461.5	459.8	461.5	461.5
10°	458.5	458.0	456.7	458.5	458.0
12.5°	454.1	454.1	452.0	454.1	453.3
15°	448.9	448.5	446.8	448.5	448.5
17.5°	442.5	442.0	440.7	442.9	442.0
20°	435.5	435.1	434.2	436.4	436.0
22.5°	427.3	427.3	426.0	428.6	428.6
25°	418.2	418.2	417.8	420.8	420.8
27.5°	409.2	408.3	408.3	411.3	411.8
30°	397.5	397.5	398.3	401.8	401.4
32.5°	385.8	386.2	388.0	391.0	391.4
35°	372.8	373.3	375.9	380.2	379.7
37.5°	359.0	360.3	363.3	368.1	368.1
40°	345.1	346.0	349.9	355.1	355.5
42.5°	329.6	331.7	336.1	342.1	341.3
45°	314.0	316.2	322.7	325.7	323.1
47.5°	297.6	300.2	306.7	307.1	298.4
50°	280.7	283.7	291.1	282.4	277.7
52.5°	261.2	266.9	273.3	261.2	258.2
55°	243.5	248.7	253.0	242.2	238.7
57.5°	223.6	230.5	227.5	222.3	218.0
60°	203.3	210.6	206.3	201.1	197.2
62.5°	182.5	190.7	186.4	181.2	177.8
65°	160.9	172.1	165.2	159.6	156.6
67.5°	140.6	151.4	143.2	138.8	135.8
70°	118.5	127.6	123.3	117.6	114.6
72.5°	96.9	103.8	102.5	96.5	94.3
75°	74.8	82.6	81.7	75.3	73.5
77.5°	56.2	63.6	61.0	55.8	53.6
80°	39.8	44.5	42.0	35.9	34.2
82.5°	24.2	28.1	23.8	20.3	18.6
85°	13.0	14.3	11.2	10.4	9.9
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)