

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: P258994

Luminaire Tested: **14CZ-LD5-20-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258994
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-6500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1342.0 lumens
Efficiency: N/A
Efficacy: 83.4 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

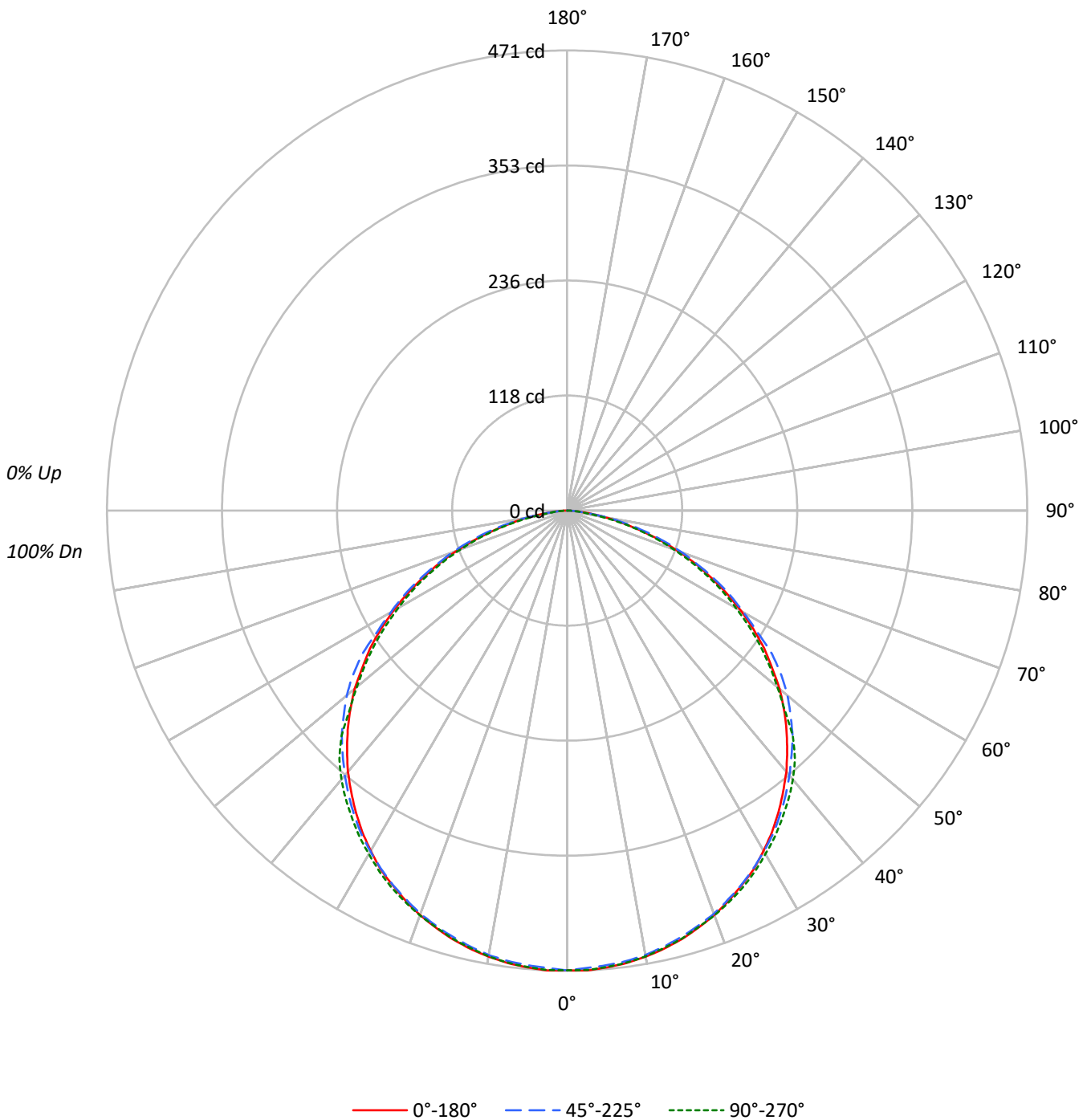
Input Watts (W): 16.089
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1266	1266	1266
5°	1268	1262	1267
10°	1267	1262	1266
15°	1265	1259	1264
20°	1261	1258	1263
25°	1256	1254	1264
30°	1249	1252	1261
35°	1238	1249	1261
40°	1226	1243	1263
45°	1209	1242	1243
50°	1189	1232	1176
55°	1156	1201	1133
60°	1107	1123	1074
65°	1036	1064	1008
70°	943	981	912
75°	787	860	774
80°	623	657	536
85°	404	352	312



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.6	3.3
10°-20°	128.0	9.5
20°-30°	195.4	14.6
30°-40°	238.2	17.7
40°-50°	249.4	18.6
50°-60°	221.9	16.5
60°-70°	163.7	12.2
70°-80°	84.6	6.3
80°-90°	16.4	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°	367.9	27.4
0°-40°	606.0	45.2
0°-60°	1077.3	80.3
0°-90°	1342.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1342.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	471	471	471	471	471	
5°	469	469	467	469	469	45
15°	454	454	452	454	454	128
25°	423	423	422	426	426	195
35°	377	378	380	384	384	236
45°	318	320	326	329	327	245
55°	246	252	256	245	241	219
65°	163	174	167	161	158	161
75°	76	84	83	76	74	82
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°	470.6	470.6	470.6	470.6	470.6
2.5°	471.1	470.6	468.5	470.6	470.6
5°	469.3	468.9	467.1	468.9	468.9
7.5°	467.1	466.7	465.0	466.7	466.7
10°	463.6	463.2	461.9	463.6	463.2
12.5°	459.3	459.3	457.1	459.3	458.4
15°	454.0	453.6	451.8	453.6	453.6
17.5°	447.5	447.0	445.7	447.9	447.0
20°	440.5	440.0	439.2	441.3	440.9
22.5°	432.2	432.2	430.8	433.5	433.5
25°	423.0	423.0	422.5	425.6	425.6
27.5°	413.8	412.9	412.9	416.0	416.4
30°	402.0	402.0	402.8	406.3	405.9
32.5°	390.2	390.6	392.3	395.4	395.8
35°	377.0	377.5	380.1	384.5	384.0
37.5°	363.0	364.4	367.4	372.2	372.2
40°	349.0	349.9	353.9	359.1	359.5
42.5°	333.3	335.5	339.9	346.0	345.1
45°	317.6	319.7	326.3	329.4	326.7
47.5°	300.9	303.6	310.1	310.6	301.8
50°	283.9	286.9	294.4	285.6	280.8
52.5°	264.2	269.9	276.4	264.2	261.1
55°	246.3	251.5	255.9	244.9	241.4
57.5°	226.1	233.1	230.1	224.8	220.5
60°	205.6	213.0	208.6	203.4	199.5
62.5°	184.6	192.9	188.5	183.3	179.8
65°	162.7	174.1	167.1	161.4	158.3
67.5°	142.2	153.1	144.8	140.4	137.3
70°	119.8	129.0	124.7	119.0	115.9
72.5°	98.0	105.0	103.7	97.5	95.4
75°	75.7	83.5	82.7	76.1	74.4
77.5°	56.9	64.3	61.7	56.4	54.2
80°	40.2	45.1	42.4	36.3	34.6
82.5°	24.5	28.4	24.1	20.6	18.8
85°	13.1	14.4	11.4	10.5	10.1
87.5°	4.8	4.8	4.8	4.4	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)