

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: P258996

Luminaire Tested: **14CZ-LD5-25-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258996
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-LD5-25-RDP-UNV-L92765-W2A1-U-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1345.0 lumens
Efficiency: N/A
Efficacy: 74.5 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

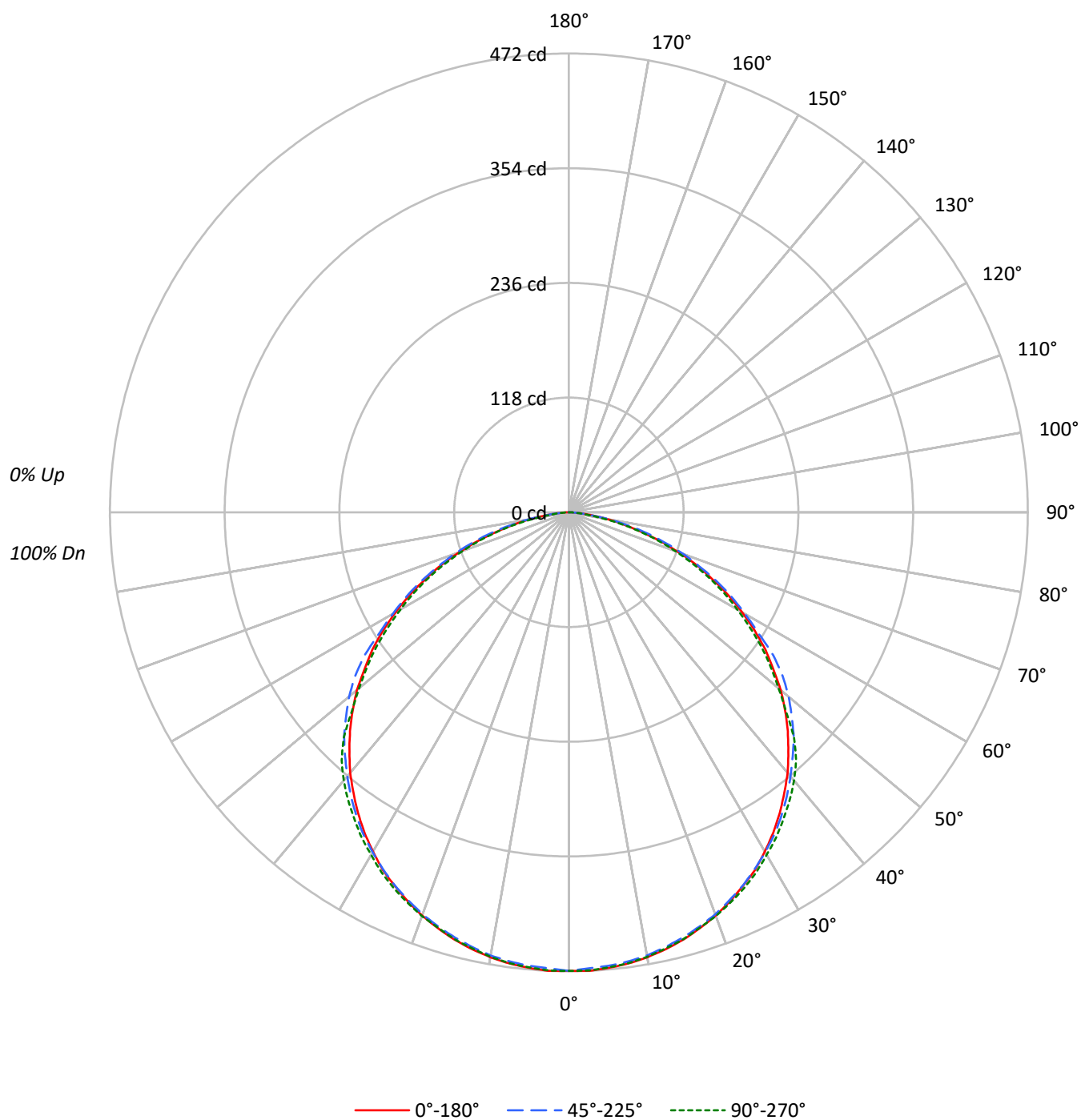
Input Watts (W): 18.042
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	95	98	95	92		94	91	89		90
2	99	91	84	79	97	89	83	78	86	80	76		82	78	74		79
3	90	80	72	65	88	78	71	65	75	69	64		73	67	63		70
4	83	71	62	55	80	69	61	55	67	60	54		65	58	53		62
5	76	63	54	48	74	62	54	47	60	53	47		58	51	46		56
6	70	57	48	42	68	56	47	41	54	47	41		52	46	41		51
7	65	52	43	37	63	51	42	36	49	42	36		48	41	36		46
8	61	47	38	33	59	46	38	33	45	38	32		44	37	32		43
9	57	43	35	29	55	43	35	29	41	34	29		40	34	29		39
10	53	40	32	27	52	39	32	26	38	31	26		37	31	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1269	1269	1269
5°	1271	1265	1269
10°	1270	1265	1268
15°	1268	1261	1266
20°	1264	1260	1265
25°	1259	1257	1266
30°	1252	1254	1264
35°	1241	1252	1264
40°	1229	1246	1266
45°	1211	1244	1246
50°	1191	1235	1178
55°	1158	1203	1135
60°	1109	1125	1076
65°	1039	1067	1011
70°	945	983	914
75°	788	862	775
80°	625	659	536
85°	408	352	312



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.7	3.3
10°-20°	128.3	9.5
20°-30°	195.8	14.6
30°-40°	238.7	17.7
40°-50°	249.9	18.6
50°-60°	222.4	16.5
60°-70°	164.1	12.2
70°-80°	84.8	6.3
80°-90°	16.5	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°	368.7	27.4
0°-40°	607.4	45.2
0°-60°	1079.7	80.3
0°-90°	1345.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1345.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	472	472	472	472	472	
5°	470	470	468	470	470	45
15°	455	455	453	455	455	128
25°	424	424	424	426	426	195
35°	378	378	381	385	385	236
45°	318	320	327	330	328	245
55°	247	252	256	246	242	220
65°	163	174	168	162	159	162
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°	471.7	471.7	471.7	471.7	471.7
2.5°	472.1	471.7	469.5	471.7	471.7
5°	470.4	469.9	468.2	469.9	469.9
7.5°	468.2	467.8	466.0	467.8	467.8
10°	464.7	464.2	462.9	464.7	464.2
12.5°	460.3	460.3	458.1	460.3	459.4
15°	455.0	454.6	452.8	454.6	454.6
17.5°	448.5	448.0	446.7	448.9	448.0
20°	441.4	441.0	440.1	442.3	441.9
22.5°	433.1	433.1	431.8	434.4	434.4
25°	423.9	423.9	423.5	426.5	426.5
27.5°	414.7	413.8	413.8	416.9	417.3
30°	402.9	402.9	403.7	407.3	406.8
32.5°	391.0	391.5	393.2	396.3	396.7
35°	377.9	378.3	381.0	385.3	384.9
37.5°	363.9	365.2	368.2	373.1	373.1
40°	349.8	350.7	354.6	359.9	360.3
42.5°	334.0	336.2	340.6	346.8	345.9
45°	318.3	320.5	327.0	330.1	327.5
47.5°	301.6	304.2	310.8	311.2	302.5
50°	284.5	287.6	295.0	286.3	281.4
52.5°	264.8	270.5	277.1	264.8	261.7
55°	246.8	252.1	256.5	245.5	242.0
57.5°	226.6	233.7	230.6	225.3	220.9
60°	206.0	213.5	209.1	203.8	199.9
62.5°	185.0	193.3	188.9	183.7	180.2
65°	163.1	174.5	167.5	161.8	158.7
67.5°	142.5	153.4	145.1	140.7	137.7
70°	120.1	129.3	124.9	119.2	116.2
72.5°	98.2	105.2	103.9	97.8	95.6
75°	75.8	83.7	82.9	76.3	74.5
77.5°	57.0	64.4	61.8	56.6	54.4
80°	40.3	45.2	42.5	36.4	34.6
82.5°	24.5	28.5	24.1	20.6	18.9
85°	13.2	14.5	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)