

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: P258872

Luminaire Tested: **14CZ-LD5-20-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258872
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-L83050-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: 1336.0 lumens
Efficiency: N/A
Efficacy: 87.1 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

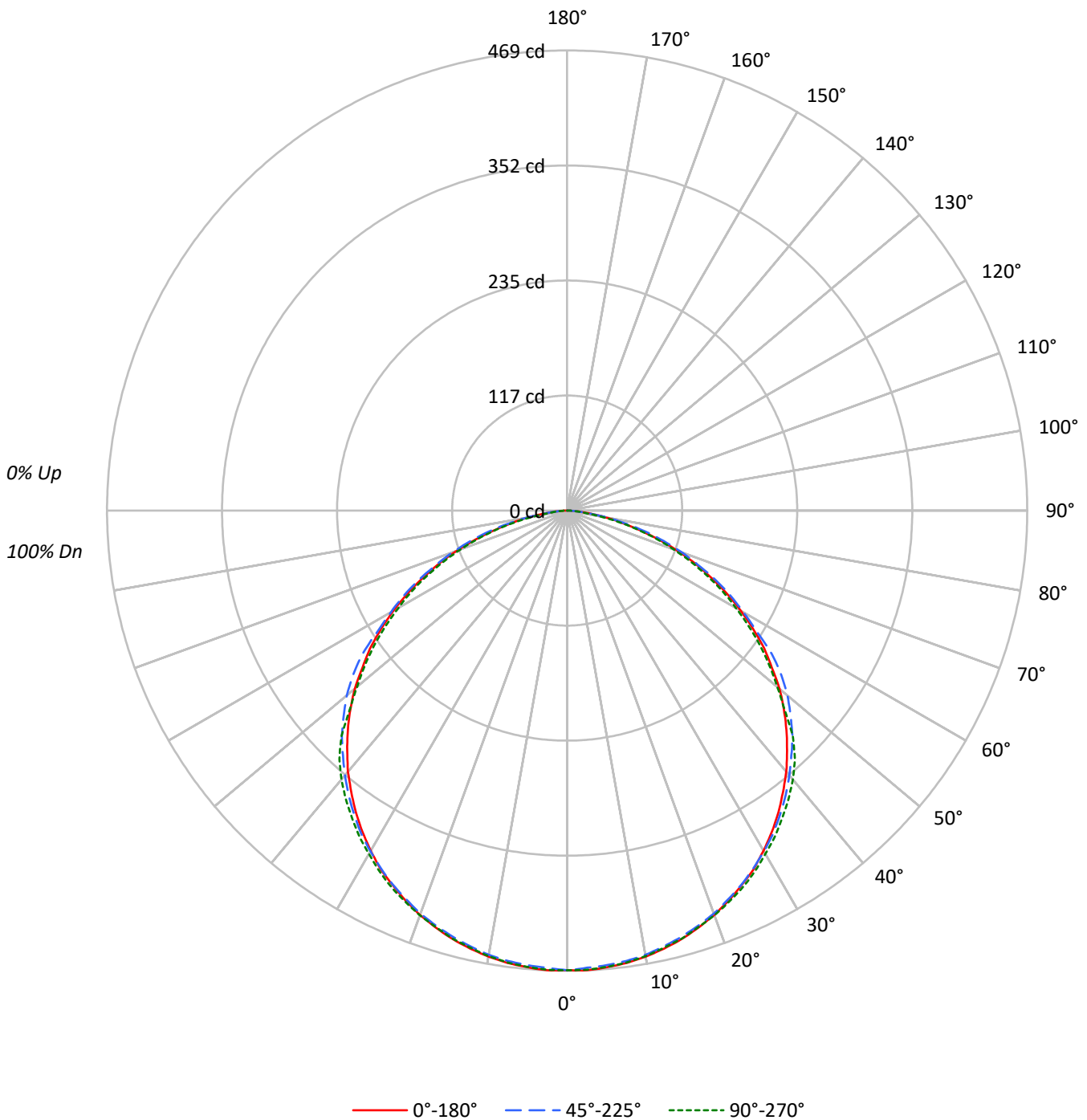
Input Watts (W): 15.345
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1261	1261	1261
5°	1262	1256	1261
10°	1261	1256	1260
15°	1259	1253	1258
20°	1256	1252	1257
25°	1250	1249	1258
30°	1244	1246	1256
35°	1233	1243	1256
40°	1221	1238	1257
45°	1203	1236	1238
50°	1183	1227	1171
55°	1150	1195	1128
60°	1102	1118	1069
65°	1032	1059	1004
70°	939	976	908
75°	783	856	769
80°	621	654	533
85°	404	349	309



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.4	3.3
10°-20°	127.4	9.5
20°-30°	194.5	14.6
30°-40°	237.1	17.7
40°-50°	248.3	18.6
50°-60°	220.9	16.5
60°-70°	163.0	12.2
70°-80°	84.2	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°	366.2	27.4
0°-40°	603.3	45.2
0°-60°	1072.5	80.3
0°-90°	1336.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1336.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	468	468	468	468	468	
5°	467	467	465	467	467	44
15°	452	452	450	452	452	128
25°	421	421	421	424	424	194
35°	375	376	378	383	382	235
45°	316	318	325	328	325	244
55°	245	250	255	244	240	218
65°	162	173	166	161	158	161
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°	468.5	468.5	468.5	468.5	468.5
2.5°	469.0	468.5	466.4	468.5	468.5
5°	467.2	466.8	465.1	466.8	466.8
7.5°	465.1	464.6	462.9	464.6	464.6
10°	461.6	461.1	459.8	461.6	461.1
12.5°	457.2	457.2	455.0	457.2	456.3
15°	452.0	451.6	449.8	451.6	451.6
17.5°	445.5	445.0	443.7	445.9	445.0
20°	438.5	438.1	437.2	439.4	438.9
22.5°	430.2	430.2	428.9	431.5	431.5
25°	421.1	421.1	420.6	423.7	423.7
27.5°	411.9	411.1	411.1	414.1	414.5
30°	400.2	400.2	401.0	404.5	404.1
32.5°	388.4	388.9	390.6	393.6	394.1
35°	375.4	375.8	378.4	382.8	382.3
37.5°	361.4	362.7	365.8	370.6	370.6
40°	347.5	348.4	352.3	357.5	357.9
42.5°	331.8	334.0	338.3	344.4	343.6
45°	316.1	318.3	324.8	327.9	325.3
47.5°	299.6	302.2	308.7	309.2	300.5
50°	282.6	285.7	293.1	284.3	279.6
52.5°	263.0	268.7	275.2	263.0	260.0
55°	245.2	250.4	254.7	243.9	240.4
57.5°	225.1	232.1	229.0	223.8	219.5
60°	204.7	212.1	207.7	202.5	198.6
62.5°	183.8	192.0	187.7	182.5	179.0
65°	162.0	173.3	166.3	160.7	157.6
67.5°	141.5	152.4	144.1	139.8	136.7
70°	119.3	128.5	124.1	118.4	115.4
72.5°	97.5	104.5	103.2	97.1	94.9
75°	75.3	83.2	82.3	75.8	74.0
77.5°	56.6	64.0	61.4	56.2	54.0
80°	40.1	44.9	42.2	36.1	34.4
82.5°	24.4	28.3	23.9	20.5	18.7
85°	13.1	14.4	11.3	10.5	10.0
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)