

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: P258937

Luminaire Tested: **14CZ-LD5-20-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258937
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-5000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1456.0 lumens
Efficiency: N/A
Efficacy: 92.6 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

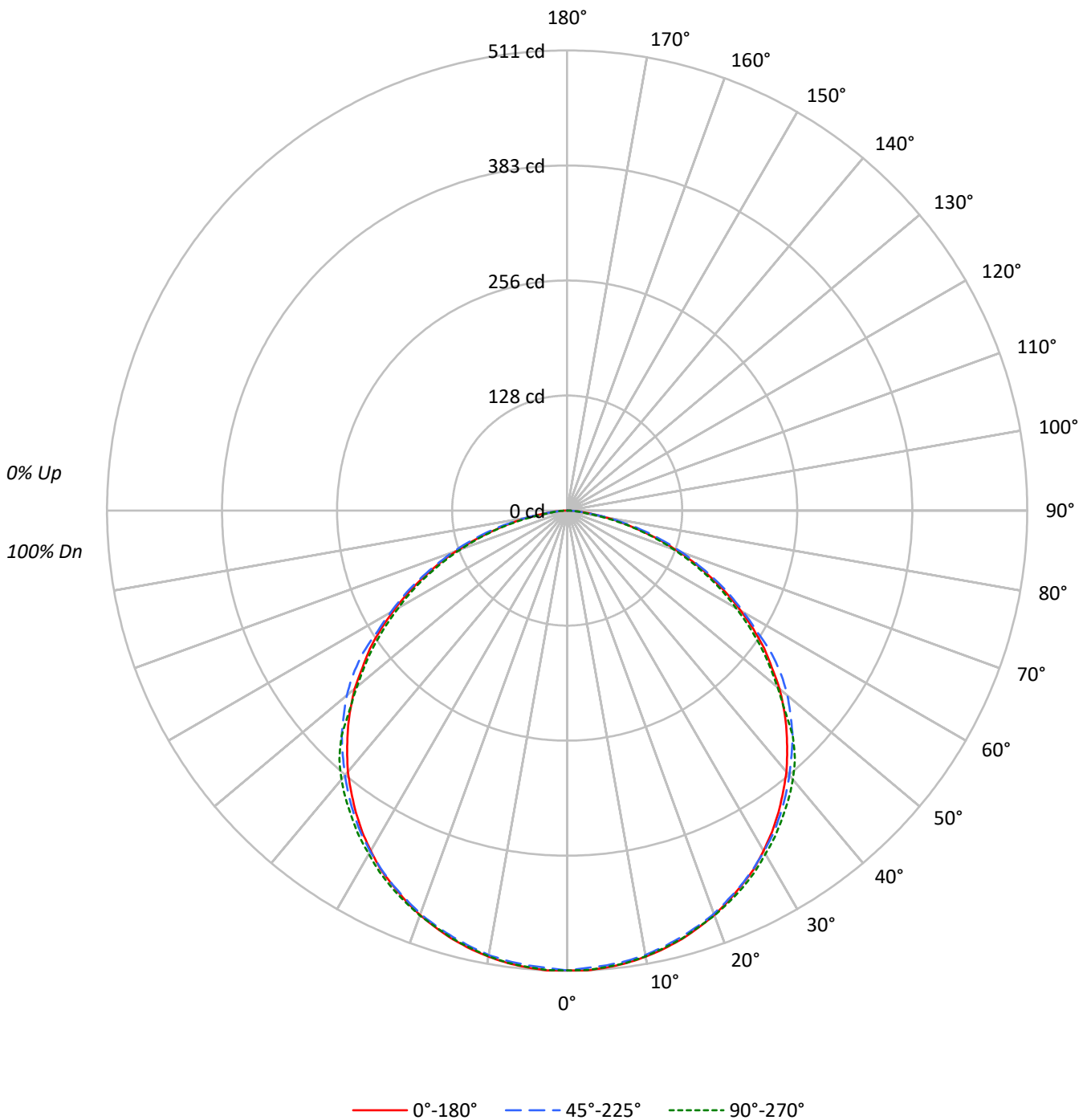
Input Watts (W): 15.717
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1374	1374	1374
5°	1375	1369	1374
10°	1374	1369	1373
15°	1372	1366	1371
20°	1369	1365	1370
25°	1363	1361	1371
30°	1355	1358	1368
35°	1344	1355	1369
40°	1330	1349	1370
45°	1311	1347	1349
50°	1289	1337	1276
55°	1254	1302	1229
60°	1200	1218	1165
65°	1124	1154	1094
70°	1023	1064	990
75°	854	933	839
80°	677	713	581
85°	438	380	337



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.3	3.3
10°-20°	138.8	9.5
20°-30°	211.9	14.6
30°-40°	258.4	17.7
40°-50°	270.6	18.6
50°-60°	240.7	16.5
60°-70°	177.6	12.2
70°-80°	91.8	6.3
80°-90°	17.8	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°	399.1	27.4
0°-40°	657.5	45.2
0°-60°	1168.8	80.3
0°-90°	1456.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1456.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	511	511	511	511	511	
5°	509	509	507	509	509	48
15°	493	492	490	492	492	139
25°	459	459	458	462	462	212
35°	409	410	412	417	417	256
45°	344	347	354	357	354	266
55°	267	273	278	266	262	238
65°	176	189	181	175	172	175
75°	82	91	90	83	81	89
85°	14	16	12	11	11	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	510.6	510.6	510.6	510.6	510.6
2.5°	511.1	510.6	508.3	510.6	510.6
5°	509.2	508.7	506.8	508.7	508.7
7.5°	506.8	506.4	504.5	506.4	506.4
10°	503.0	502.6	501.1	503.0	502.6
12.5°	498.3	498.3	495.9	498.3	497.3
15°	492.6	492.1	490.2	492.1	492.1
17.5°	485.5	485.0	483.6	485.9	485.0
20°	477.9	477.4	476.5	478.8	478.4
22.5°	468.9	468.9	467.4	470.3	470.3
25°	458.9	458.9	458.4	461.7	461.7
27.5°	448.9	448.0	448.0	451.3	451.8
30°	436.1	436.1	437.1	440.9	440.4
32.5°	423.3	423.8	425.7	429.0	429.5
35°	409.1	409.5	412.4	417.1	416.7
37.5°	393.9	395.3	398.6	403.8	403.8
40°	378.7	379.6	383.9	389.6	390.1
42.5°	361.6	364.0	368.7	375.4	374.4
45°	344.5	346.9	354.0	357.3	354.5
47.5°	326.5	329.3	336.5	336.9	327.4
50°	308.0	311.3	319.4	309.9	304.7
52.5°	286.6	292.8	299.9	286.6	283.3
55°	267.2	272.9	277.6	265.8	262.0
57.5°	245.3	252.9	249.6	243.9	239.2
60°	223.0	231.1	226.4	220.7	216.4
62.5°	200.3	209.3	204.5	198.8	195.0
65°	176.5	188.9	181.3	175.1	171.8
67.5°	154.2	166.1	157.1	152.3	149.0
70°	130.0	140.0	135.2	129.1	125.8
72.5°	106.3	113.9	112.5	105.8	103.5
75°	82.1	90.6	89.7	82.6	80.7
77.5°	61.7	69.8	66.9	61.2	58.8
80°	43.7	48.9	46.0	39.4	37.5
82.5°	26.6	30.8	26.1	22.3	20.4
85°	14.2	15.7	12.3	11.4	10.9
87.5°	5.2	5.2	5.2	4.7	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)