

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: P258939

Luminaire Tested: **14CZ-LD5-20-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258939
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-5700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1474.0 lumens
Efficiency: N/A
Efficacy: 93.2 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

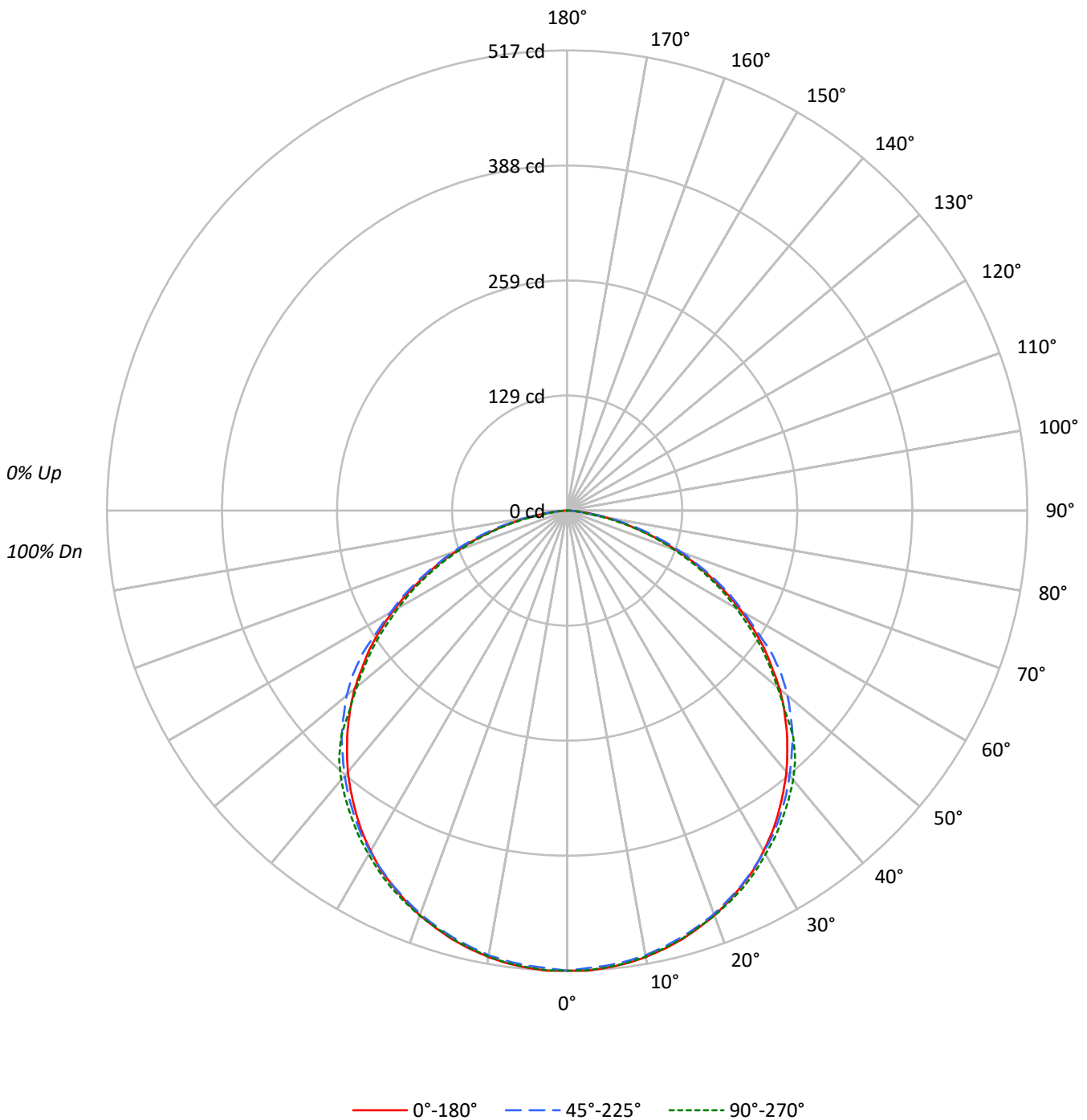
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P258939

CATALOG NUMBER: 14CZ-LD5-20-RDP-UNV-L82765-W2A1-U-5700K

Luminous Intensity Polar Plot





TEST NUMBER: P258939

CATALOG NUMBER: 14CZ-LD5-20-RDP-UNV-L82765-W2A1-U-5700K

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°	1391	1391	1391
5°	1392	1386	1391
10°	1392	1386	1390
15°	1389	1383	1388
20°	1385	1381	1387
25°	1379	1378	1388
30°	1372	1375	1385
35°	1360	1372	1386
40°	1347	1365	1387
45°	1327	1364	1366
50°	1305	1353	1291
55°	1269	1318	1244
60°	1215	1234	1179
65°	1138	1168	1107
70°	1035	1077	1002
75°	864	944	849
80°	685	722	589
85°	445	386	340



TEST NUMBER: P258939

CATALOG NUMBER: 14CZ-LD5-20-RDP-UNV-L82765-W2A1-U-5700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.9	3.3
10°-20°	140.6	9.5
20°-30°	214.6	14.6
30°-40°	261.6	17.7
40°-50°	273.9	18.6
50°-60°	243.7	16.5
60°-70°	179.8	12.2
70°-80°	92.9	6.3
80°-90°	18.1	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°	404.1	27.4
0°-40°	665.7	45.2
0°-60°	1183.3	80.3
0°-90°	1474.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1474.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	517	517	517	517	517	
5°	516	515	513	515	515	49
15°	499	498	496	498	498	141
25°	465	465	464	468	468	214
35°	414	415	418	422	422	259
45°	349	351	358	362	359	269
55°	270	276	281	269	265	241
65°	179	191	184	177	174	177
75°	83	92	91	84	82	90
85°	14	16	12	12	11	19
90°	0	0	0	0	0	



TEST NUMBER: P258939

CATALOG NUMBER: 14CZ-LD5-20-RDP-UNV-L82765-W2A1-U-5700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	516.9	516.9	516.9	516.9	516.9
2.5°	517.4	516.9	514.5	516.9	516.9
5°	515.5	515.0	513.1	515.0	515.0
7.5°	513.1	512.6	510.7	512.6	512.6
10°	509.3	508.8	507.3	509.3	508.8
12.5°	504.4	504.4	502.0	504.4	503.5
15°	498.7	498.2	496.3	498.2	498.2
17.5°	491.5	491.0	489.6	492.0	491.0
20°	483.8	483.3	482.3	484.7	484.3
22.5°	474.7	474.7	473.2	476.1	476.1
25°	464.6	464.6	464.1	467.5	467.5
27.5°	454.5	453.5	453.5	456.9	457.4
30°	441.5	441.5	442.5	446.3	445.8
32.5°	428.5	429.0	430.9	434.3	434.8
35°	414.1	414.6	417.5	422.3	421.8
37.5°	398.8	400.2	403.6	408.8	408.8
40°	383.4	384.3	388.7	394.4	394.9
42.5°	366.1	368.5	373.3	380.0	379.1
45°	348.8	351.2	358.4	361.8	358.9
47.5°	330.5	333.4	340.6	341.1	331.5
50°	311.8	315.2	323.3	313.7	308.4
52.5°	290.2	296.4	303.6	290.2	286.8
55°	270.5	276.2	281.0	269.0	265.2
57.5°	248.4	256.1	252.7	246.9	242.1
60°	225.8	234.0	229.2	223.4	219.1
62.5°	202.7	211.9	207.1	201.3	197.5
65°	178.7	191.2	183.5	177.3	173.9
67.5°	156.1	168.1	159.0	154.2	150.9
70°	131.6	141.7	136.9	130.7	127.3
72.5°	107.6	115.3	113.9	107.1	104.7
75°	83.1	91.8	90.8	83.6	81.7
77.5°	62.5	70.6	67.7	62.0	59.6
80°	44.2	49.5	46.6	39.9	38.0
82.5°	26.9	31.2	26.4	22.6	20.7
85°	14.4	15.9	12.5	11.5	11.0
87.5°	5.3	5.3	5.3	4.8	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)