

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: P258934

Luminaire Tested: **14CZ-LD5-20-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258934
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-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1381.0 lumens
Efficiency: N/A
Efficacy: 89.5 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

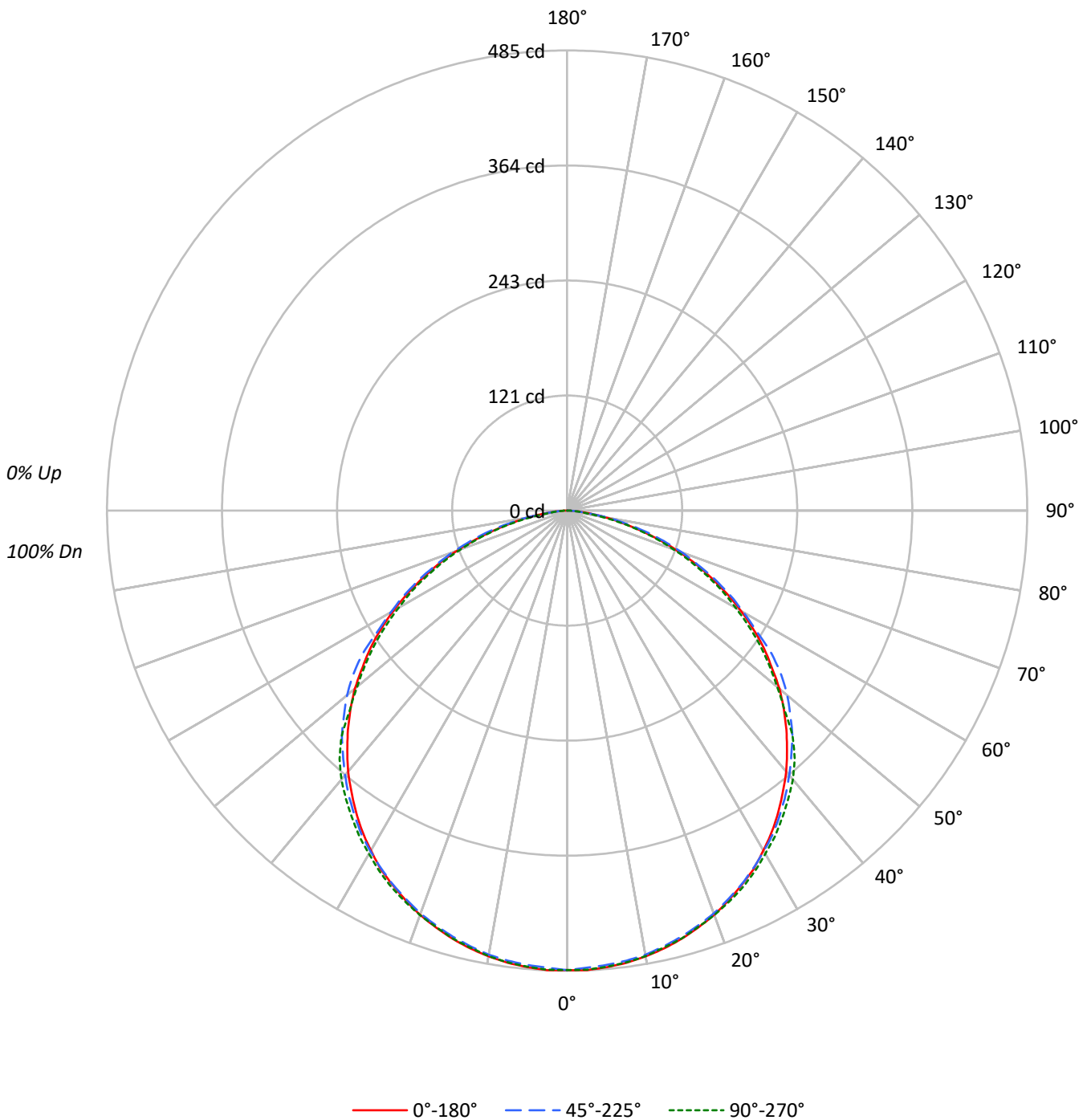
Input Watts (W): 15.438
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P258934

CATALOG NUMBER: 14CZ-LD5-20-RDP-UNV-L82765-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P258934

CATALOG NUMBER: 14CZ-LD5-20-RDP-UNV-L82765-W2A1-U-3500K

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°	1303	1303	1303
5°	1305	1298	1303
10°	1304	1299	1303
15°	1302	1295	1300
20°	1298	1294	1299
25°	1292	1291	1300
30°	1285	1288	1298
35°	1275	1285	1298
40°	1262	1279	1300
45°	1244	1278	1279
50°	1223	1268	1210
55°	1189	1235	1166
60°	1139	1156	1105
65°	1066	1095	1037
70°	970	1009	939
75°	810	885	795
80°	642	677	552
85°	417	361	321



TEST NUMBER: P258934

CATALOG NUMBER: 14CZ-LD5-20-RDP-UNV-L82765-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.9	3.3
10°-20°	131.7	9.5
20°-30°	201.0	14.6
30°-40°	245.1	17.7
40°-50°	256.6	18.6
50°-60°	228.3	16.5
60°-70°	168.4	12.2
70°-80°	87.0	6.3
80°-90°	16.9	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°	378.6	27.4
0°-40°	623.7	45.2
0°-60°	1108.6	80.3
0°-90°	1381.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1381.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	484	484	484	484	484	
5°	483	482	481	482	482	46
15°	467	467	465	467	467	132
25°	435	435	435	438	438	201
35°	388	388	391	396	395	243
45°	327	329	336	339	336	252
55°	253	259	263	252	248	226
65°	167	179	172	166	163	166
75°	78	86	85	78	76	84
85°	14	15	12	11	10	18
90°	0	0	0	0	0	



TEST NUMBER: P258934

CATALOG NUMBER: 14CZ-LD5-20-RDP-UNV-L82765-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	484.3	484.3	484.3	484.3	484.3
2.5°	484.8	484.3	482.1	484.3	484.3
5°	483.0	482.5	480.7	482.5	482.5
7.5°	480.7	480.3	478.5	480.3	480.3
10°	477.1	476.7	475.3	477.1	476.7
12.5°	472.6	472.6	470.4	472.6	471.7
15°	467.2	466.8	465.0	466.8	466.8
17.5°	460.5	460.0	458.7	460.9	460.0
20°	453.3	452.8	451.9	454.2	453.7
22.5°	444.7	444.7	443.4	446.1	446.1
25°	435.3	435.3	434.8	438.0	438.0
27.5°	425.8	424.9	424.9	428.1	428.5
30°	413.7	413.7	414.6	418.2	417.7
32.5°	401.5	402.0	403.8	406.9	407.4
35°	388.0	388.4	391.1	395.6	395.2
37.5°	373.6	374.9	378.1	383.0	383.0
40°	359.2	360.1	364.1	369.5	370.0
42.5°	343.0	345.2	349.7	356.0	355.1
45°	326.8	329.0	335.8	338.9	336.2
47.5°	309.7	312.4	319.1	319.6	310.6
50°	292.1	295.3	302.9	293.9	289.0
52.5°	271.9	277.7	284.5	271.9	268.7
55°	253.4	258.8	263.3	252.1	248.5
57.5°	232.7	239.9	236.8	231.4	226.9
60°	211.6	219.2	214.7	209.3	205.3
62.5°	189.9	198.5	194.0	188.6	185.0
65°	167.4	179.1	171.9	166.1	162.9
67.5°	146.3	157.5	149.0	144.5	141.3
70°	123.3	132.8	128.3	122.4	119.3
72.5°	100.8	108.0	106.7	100.4	98.1
75°	77.9	86.0	85.1	78.3	76.5
77.5°	58.5	66.2	63.5	58.1	55.8
80°	41.4	46.4	43.7	37.4	35.6
82.5°	25.2	29.3	24.8	21.2	19.4
85°	13.5	14.9	11.7	10.8	10.4
87.5°	5.0	5.0	5.0	4.5	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)