

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: P258936

Luminaire Tested: **14CZ-LD5-20-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258936
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-4500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1436.0 lumens
Efficiency: N/A
Efficacy: 91.9 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

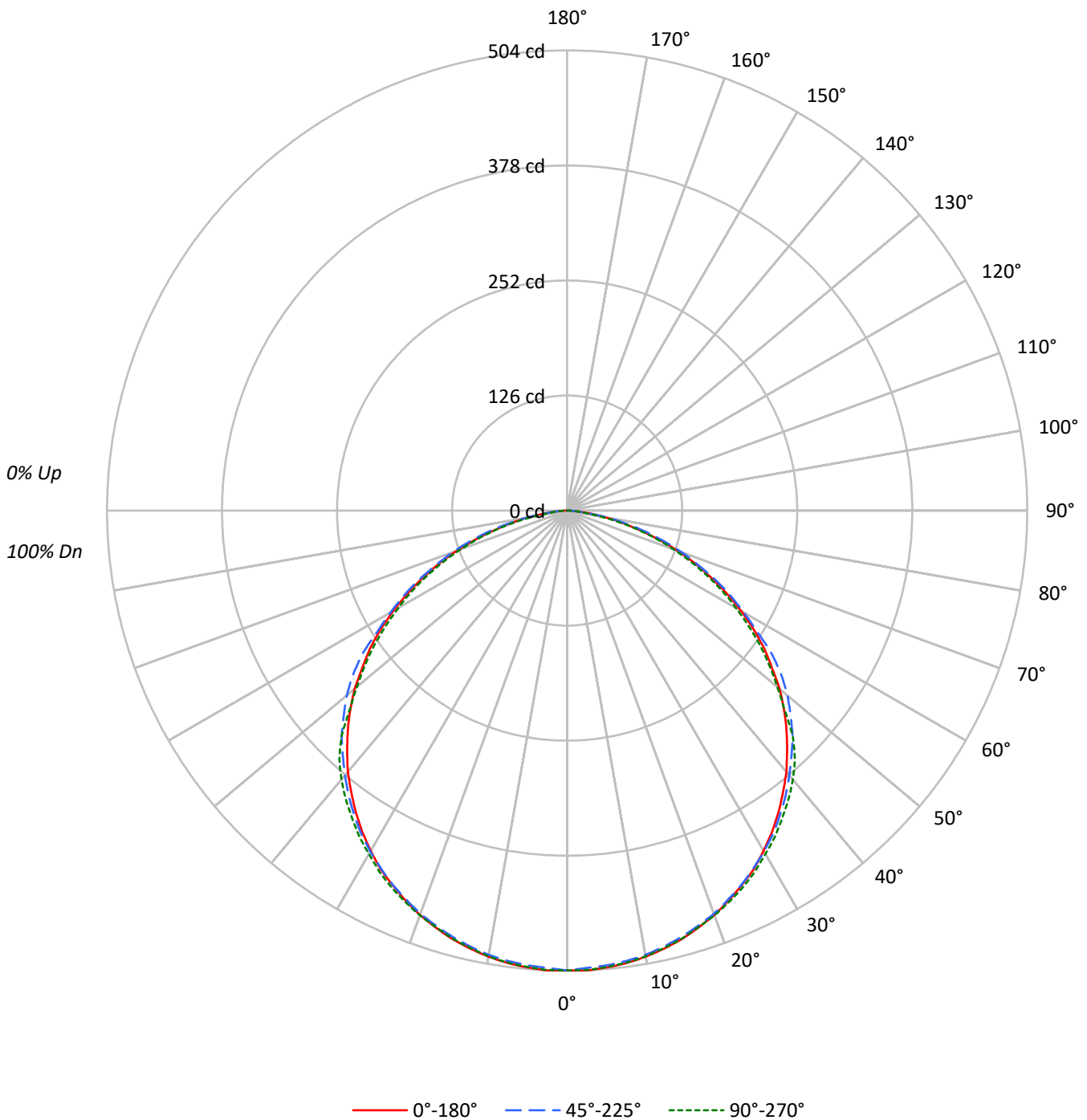
Input Watts (W): 15.624
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P258936

CATALOG NUMBER: 14CZ-LD5-20-RDP-UNV-L82765-W2A1-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P258936

CATALOG NUMBER: 14CZ-LD5-20-RDP-UNV-L82765-W2A1-U-4500K

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°	1355	1355	1355
5°	1357	1350	1355
10°	1356	1350	1354
15°	1353	1347	1352
20°	1350	1346	1351
25°	1344	1342	1352
30°	1336	1340	1349
35°	1326	1336	1350
40°	1312	1330	1351
45°	1293	1329	1330
50°	1272	1319	1258
55°	1236	1285	1212
60°	1184	1202	1149
65°	1109	1138	1079
70°	1009	1050	976
75°	842	920	828
80°	668	704	573
85°	432	377	333



TEST NUMBER: P258936

CATALOG NUMBER: 14CZ-LD5-20-RDP-UNV-L82765-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.7	3.3
10°-20°	136.9	9.5
20°-30°	209.0	14.6
30°-40°	254.9	17.7
40°-50°	266.8	18.6
50°-60°	237.4	16.5
60°-70°	175.1	12.2
70°-80°	90.5	6.3
80°-90°	17.6	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°	393.6	27.4
0°-40°	648.5	45.2
0°-60°	1152.8	80.3
0°-90°	1436.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1436.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	504	504	504	504	504	
5°	502	502	500	502	502	48
15°	486	485	484	485	485	137
25°	453	453	452	455	455	209
35°	404	404	407	411	411	252
45°	340	342	349	352	350	262
55°	264	269	274	262	258	235
65°	174	186	179	173	169	173
75°	81	89	88	81	80	88
85°	14	15	12	11	11	18
90°	0	0	0	0	0	



TEST NUMBER: P258936

CATALOG NUMBER: 14CZ-LD5-20-RDP-UNV-L82765-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	503.6	503.6	503.6	503.6	503.6
2.5°	504.1	503.6	501.3	503.6	503.6
5°	502.2	501.7	499.9	501.7	501.7
7.5°	499.9	499.4	497.5	499.4	499.4
10°	496.1	495.7	494.2	496.1	495.7
12.5°	491.4	491.4	489.1	491.4	490.5
15°	485.8	485.4	483.5	485.4	485.4
17.5°	478.8	478.3	476.9	479.3	478.3
20°	471.3	470.8	469.9	472.3	471.8
22.5°	462.4	462.4	461.0	463.8	463.8
25°	452.6	452.6	452.1	455.4	455.4
27.5°	442.8	441.8	441.8	445.1	445.6
30°	430.1	430.1	431.1	434.8	434.3
32.5°	417.5	418.0	419.8	423.1	423.6
35°	403.5	403.9	406.7	411.4	410.9
37.5°	388.5	389.9	393.2	398.3	398.3
40°	373.5	374.4	378.6	384.3	384.7
42.5°	356.6	359.0	363.7	370.2	369.3
45°	339.8	342.1	349.2	352.4	349.6
47.5°	322.0	324.8	331.8	332.3	322.9
50°	303.8	307.0	315.0	305.6	300.5
52.5°	282.7	288.8	295.8	282.7	279.4
55°	263.5	269.1	273.8	262.1	258.4
57.5°	242.0	249.5	246.2	240.6	235.9
60°	220.0	227.9	223.3	217.6	213.4
62.5°	197.5	206.4	201.7	196.1	192.4
65°	174.1	186.3	178.8	172.7	169.4
67.5°	152.1	163.8	154.9	150.2	147.0
70°	128.2	138.1	133.4	127.3	124.0
72.5°	104.8	112.3	110.9	104.4	102.0
75°	81.0	89.4	88.5	81.4	79.6
77.5°	60.8	68.8	66.0	60.4	58.0
80°	43.1	48.2	45.4	38.8	37.0
82.5°	26.2	30.4	25.7	22.0	20.1
85°	14.0	15.4	12.2	11.2	10.8
87.5°	5.1	5.1	5.1	4.7	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)