

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: P258990

Luminaire Tested: **14CZ-LD5-20-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258990
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-L92765-W2A1-U-4500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1281.0 lumens
Efficiency: N/A
Efficacy: 82.0 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

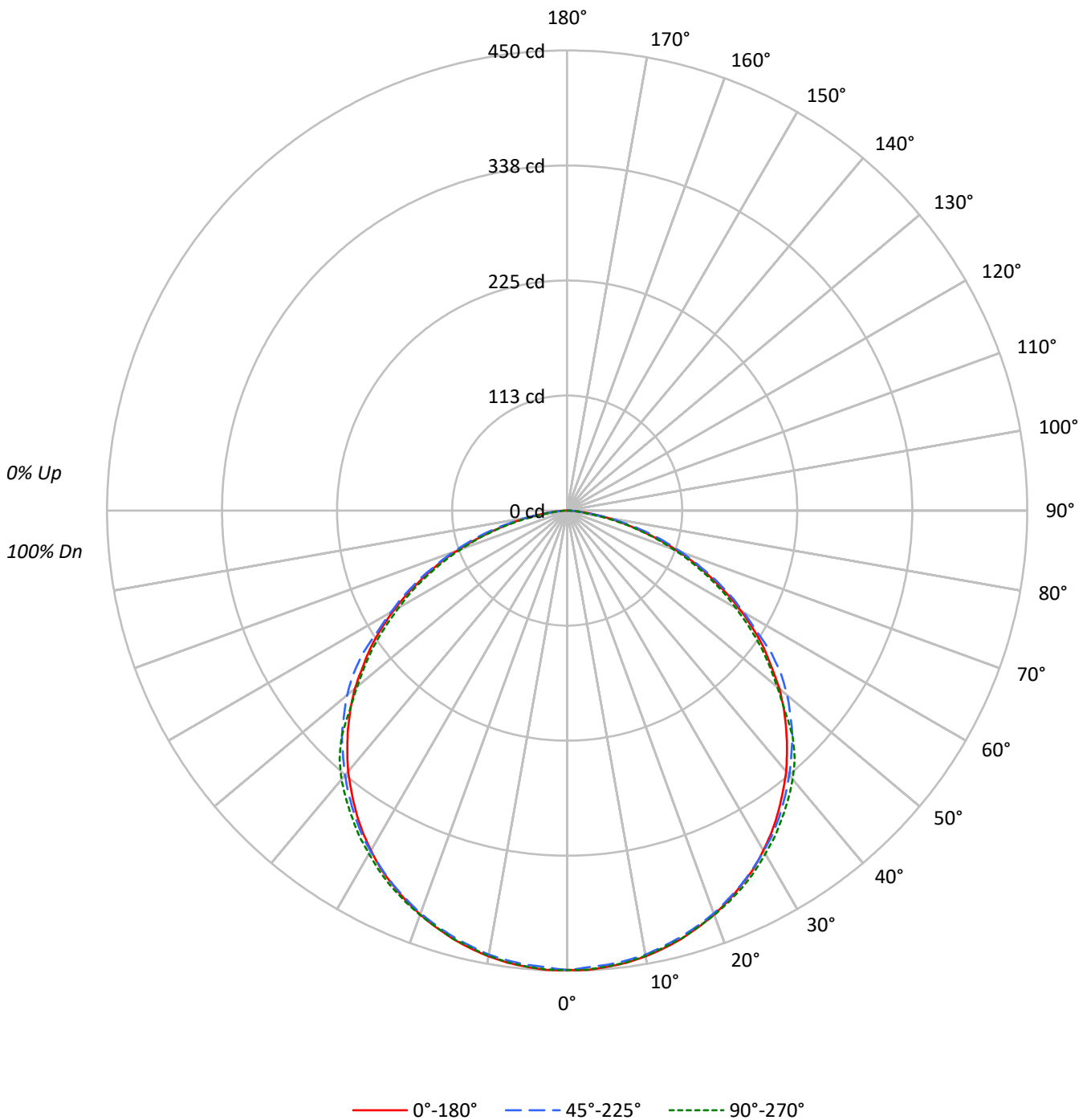
Input Watts (W): 15.624
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P258990

CATALOG NUMBER: 14CZ-LD5-20-RDP-UNV-L92765-W2A1-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P258990

CATALOG NUMBER: 14CZ-LD5-20-RDP-UNV-L92765-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°	1209	1209	1209
5°	1210	1204	1209
10°	1209	1205	1208
15°	1207	1202	1206
20°	1204	1200	1205
25°	1199	1197	1206
30°	1192	1195	1204
35°	1182	1192	1204
40°	1170	1187	1206
45°	1153	1185	1187
50°	1135	1176	1122
55°	1103	1146	1081
60°	1056	1072	1025
65°	989	1016	962
70°	900	936	870
75°	751	820	738
80°	595	628	511
85°	386	337	296



TEST NUMBER: P258990

CATALOG NUMBER: 14CZ-LD5-20-RDP-UNV-L92765-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.5	3.3
10°-20°	122.2	9.5
20°-30°	186.5	14.6
30°-40°	227.3	17.7
40°-50°	238.1	18.6
50°-60°	211.8	16.5
60°-70°	156.2	12.2
70°-80°	80.7	6.3
80°-90°	15.7	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°	351.2	27.4
0°-40°	578.5	45.2
0°-60°	1028.3	80.3
0°-90°	1281.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1281.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	449	449	449	449	449	
5°	448	448	446	448	448	43
15°	433	433	431	433	433	122
25°	404	404	403	406	406	186
35°	360	360	363	367	367	225
45°	303	305	312	314	312	234
55°	235	240	244	234	230	209
65°	155	166	160	154	151	154
75°	72	80	79	73	71	78
85°	12	14	11	10	10	16
90°	0	0	0	0	0	



TEST NUMBER: P258990

CATALOG NUMBER: 14CZ-LD5-20-RDP-UNV-L92765-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	449.3	449.3	449.3	449.3	449.3
2.5°	449.7	449.3	447.2	449.3	449.3
5°	448.0	447.6	445.9	447.6	447.6
7.5°	445.9	445.5	443.8	445.5	445.5
10°	442.6	442.2	440.9	442.6	442.2
12.5°	438.4	438.4	436.3	438.4	437.6
15°	433.4	433.0	431.3	433.0	433.0
17.5°	427.1	426.7	425.5	427.5	426.7
20°	420.4	420.0	419.2	421.3	420.9
22.5°	412.5	412.5	411.3	413.8	413.8
25°	403.7	403.7	403.3	406.2	406.2
27.5°	395.0	394.1	394.1	397.1	397.5
30°	383.7	383.7	384.5	387.9	387.5
32.5°	372.4	372.8	374.5	377.4	377.9
35°	359.9	360.3	362.8	367.0	366.6
37.5°	346.5	347.8	350.7	355.3	355.3
40°	333.2	334.0	337.8	342.8	343.2
42.5°	318.2	320.2	324.4	330.3	329.4
45°	303.1	305.2	311.5	314.4	311.9
47.5°	287.3	289.8	296.0	296.4	288.1
50°	271.0	273.9	281.0	272.6	268.0
52.5°	252.2	257.6	263.9	252.2	249.3
55°	235.1	240.1	244.2	233.8	230.5
57.5°	215.9	222.5	219.6	214.6	210.4
60°	196.2	203.3	199.2	194.1	190.4
62.5°	176.2	184.1	180.0	174.9	171.6
65°	155.3	166.2	159.5	154.1	151.1
67.5°	135.7	146.1	138.2	134.0	131.1
70°	114.4	123.2	119.0	113.6	110.6
72.5°	93.5	100.2	99.0	93.1	91.0
75°	72.2	79.7	78.9	72.6	71.0
77.5°	54.3	61.4	58.9	53.9	51.8
80°	38.4	43.0	40.5	34.7	33.0
82.5°	23.4	27.1	23.0	19.6	18.0
85°	12.5	13.8	10.9	10.0	9.6
87.5°	4.6	4.6	4.6	4.2	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)