

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: P258950

Luminaire Tested: **14CZ-LD5-29-RDP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258950
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-LD5-29-RDP-UNV-L82765-W2A1-U-2700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1809.0 lumens
Efficiency: N/A
Efficacy: 81.7 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

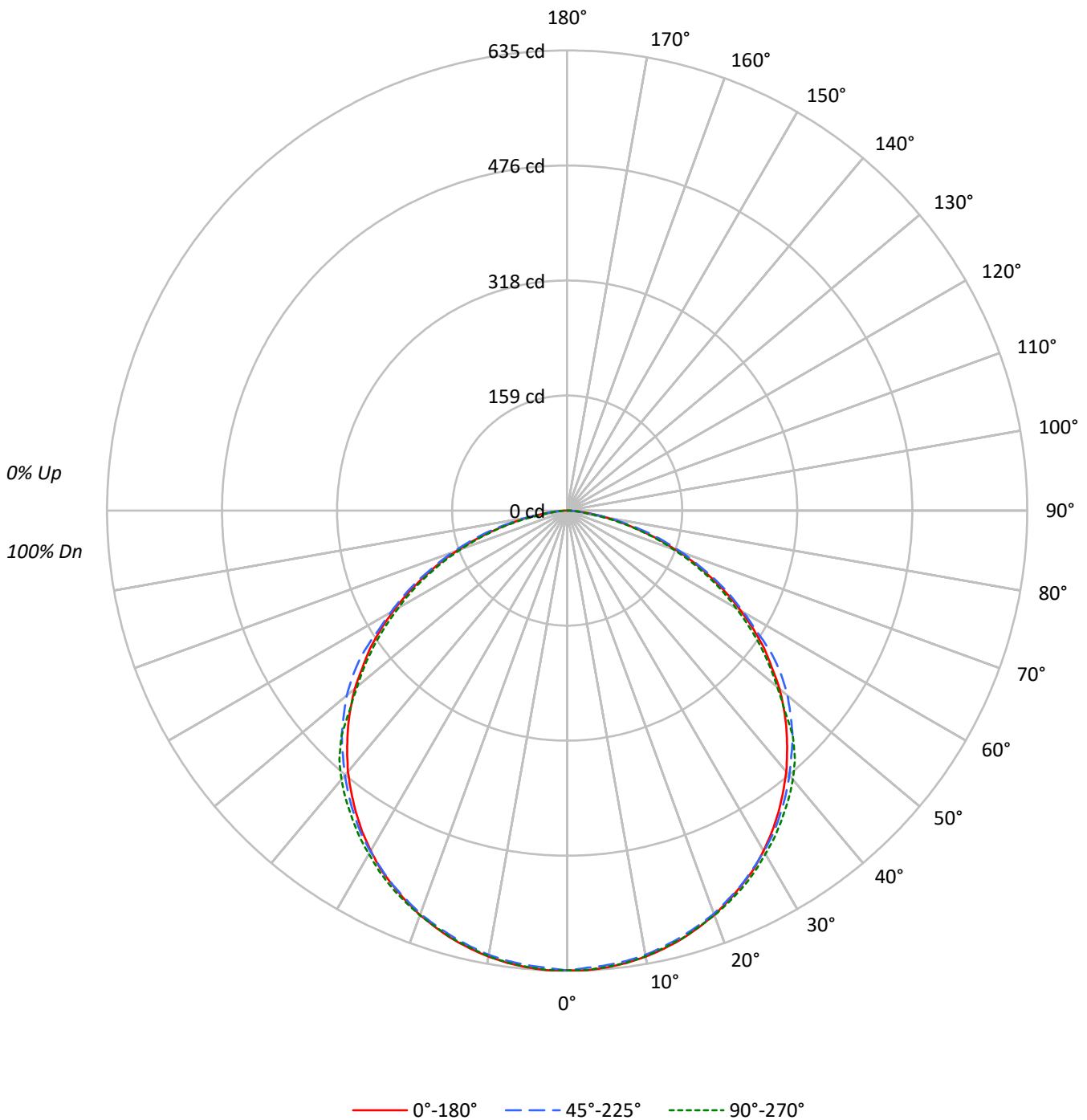
Input Watts (W): 22.134
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P258950

CATALOG NUMBER: 14CZ-LD5-29-RDP-UNV-L82765-W2A1-U-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P258950

CATALOG NUMBER: 14CZ-LD5-29-RDP-UNV-L82765-W2A1-U-2700K

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°	1707	1707	1707
5°	1709	1701	1707
10°	1708	1701	1706
15°	1705	1697	1703
20°	1700	1695	1702
25°	1693	1691	1703
30°	1684	1687	1700
35°	1669	1683	1701
40°	1653	1676	1703
45°	1629	1674	1676
50°	1602	1661	1585
55°	1558	1618	1527
60°	1491	1513	1447
65°	1396	1434	1359
70°	1271	1322	1229
75°	1061	1158	1042
80°	840	886	722
85°	546	472	420



TEST NUMBER: P258950

CATALOG NUMBER: 14CZ-LD5-29-RDP-UNV-L82765-W2A1-U-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.1	3.3
10°-20°	172.5	9.5
20°-30°	263.3	14.6
30°-40°	321.1	17.7
40°-50°	336.2	18.6
50°-60°	299.1	16.5
60°-70°	220.6	12.2
70°-80°	114.0	6.3
80°-90°	22.2	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°	495.9	27.4
0°-40°	817.0	45.2
0°-60°	1452.2	80.3
0°-90°	1809.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1809.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	634	634	634	634	634	
5°	633	632	630	632	632	60
15°	612	611	609	611	611	173
25°	570	570	570	574	574	263
35°	508	509	512	518	518	318
45°	428	431	440	444	440	330
55°	332	339	345	330	326	296
65°	219	235	225	218	213	217
75°	102	113	111	103	100	110
85°	18	20	15	14	14	23
90°	0	0	0	0	0	



TEST NUMBER: P258950

CATALOG NUMBER: 14CZ-LD5-29-RDP-UNV-L82765-W2A1-U-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	634.4	634.4	634.4	634.4	634.4
2.5°	635.0	634.4	631.5	634.4	634.4
5°	632.7	632.1	629.7	632.1	632.1
7.5°	629.7	629.1	626.8	629.1	629.1
10°	625.0	624.4	622.6	625.0	624.4
12.5°	619.1	619.1	616.1	619.1	617.9
15°	612.0	611.4	609.1	611.4	611.4
17.5°	603.2	602.6	600.8	603.8	602.6
20°	593.7	593.2	592.0	594.9	594.3
22.5°	582.5	582.5	580.8	584.3	584.3
25°	570.2	570.2	569.6	573.7	573.7
27.5°	557.8	556.6	556.6	560.7	561.3
30°	541.9	541.9	543.0	547.8	547.2
32.5°	525.9	526.5	528.9	533.0	533.6
35°	508.2	508.8	512.4	518.3	517.7
37.5°	489.4	491.1	495.3	501.8	501.8
40°	470.5	471.7	477.0	484.1	484.7
42.5°	449.3	452.2	458.1	466.4	465.2
45°	428.1	431.0	439.9	444.0	440.4
47.5°	405.7	409.2	418.0	418.6	406.8
50°	382.7	386.8	396.8	385.0	378.5
52.5°	356.1	363.8	372.6	356.1	352.0
55°	332.0	339.0	344.9	330.2	325.5
57.5°	304.8	314.3	310.1	303.1	297.2
60°	277.1	287.1	281.2	274.2	268.9
62.5°	248.8	260.0	254.1	247.0	242.3
65°	219.3	234.7	225.2	217.6	213.4
67.5°	191.6	206.4	195.2	189.3	185.1
70°	161.6	173.9	168.0	160.4	156.2
72.5°	132.1	141.5	139.7	131.5	128.5
75°	102.0	112.6	111.4	102.6	100.2
77.5°	76.6	86.7	83.1	76.1	73.1
80°	54.2	60.7	57.2	48.9	46.6
82.5°	33.0	38.3	32.4	27.7	25.4
85°	17.7	19.5	15.3	14.2	13.6
87.5°	6.5	6.5	6.5	5.9	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)