

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: P258914

Luminaire Tested: **14CZ-LD5-29-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258914
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-L93050-W2A1-U-4000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1810.0 lumens
Efficiency: N/A
Efficacy: 79.8 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

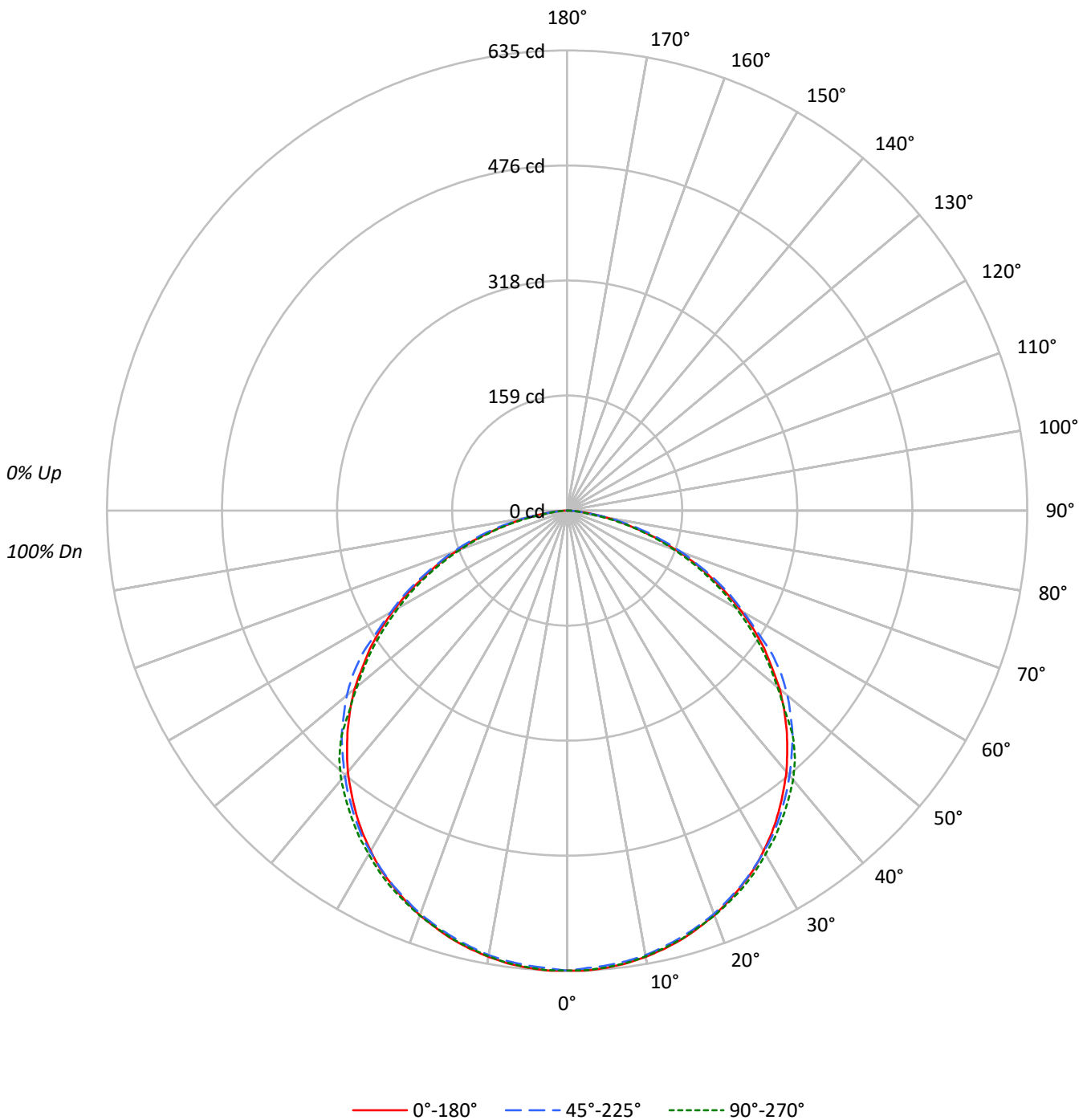
Input Watts (W): 22.692
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P258914

CATALOG NUMBER: 14CZ-LD5-29-RDP-UNV-L93050-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P258914

CATALOG NUMBER: 14CZ-LD5-29-RDP-UNV-L93050-W2A1-U-4000K

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°	1708	1708	1708
5°	1710	1702	1708
10°	1709	1702	1707
15°	1706	1698	1704
20°	1701	1696	1703
25°	1694	1692	1704
30°	1685	1688	1701
35°	1670	1684	1702
40°	1654	1677	1703
45°	1630	1675	1677
50°	1603	1662	1585
55°	1558	1619	1528
60°	1492	1514	1448
65°	1398	1435	1360
70°	1271	1323	1230
75°	1062	1159	1043
80°	841	886	722
85°	546	472	420



TEST NUMBER: P258914

CATALOG NUMBER: 14CZ-LD5-29-RDP-UNV-L93050-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.1	3.3
10°-20°	172.6	9.5
20°-30°	263.5	14.6
30°-40°	321.2	17.7
40°-50°	336.4	18.6
50°-60°	299.2	16.5
60°-70°	220.8	12.2
70°-80°	114.1	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°	496.2	27.4
0°-40°	817.4	45.2
0°-60°	1453.0	80.3
0°-90°	1810.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1810.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	635	635	635	635	635	
5°	633	632	630	632	632	60
15°	612	612	609	612	612	173
25°	570	570	570	574	574	263
35°	508	509	513	519	518	318
45°	428	431	440	444	441	330
55°	332	339	345	330	326	296
65°	220	235	225	218	214	218
75°	102	113	112	103	100	110
85°	18	20	15	14	14	23
90°	0	0	0	0	0	



TEST NUMBER: P258914

CATALOG NUMBER: 14CZ-LD5-29-RDP-UNV-L93050-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	634.8	634.8	634.8	634.8	634.8
2.5°	635.4	634.8	631.8	634.8	634.8
5°	633.0	632.4	630.1	632.4	632.4
7.5°	630.1	629.5	627.1	629.5	629.5
10°	625.3	624.7	623.0	625.3	624.7
12.5°	619.4	619.4	616.5	619.4	618.3
15°	612.4	611.8	609.4	611.8	611.8
17.5°	603.5	602.9	601.1	604.1	602.9
20°	594.1	593.5	592.3	595.2	594.7
22.5°	582.9	582.9	581.1	584.6	584.6
25°	570.5	570.5	569.9	574.0	574.0
27.5°	558.1	556.9	556.9	561.0	561.6
30°	542.2	542.2	543.3	548.1	547.5
32.5°	526.2	526.8	529.2	533.3	533.9
35°	508.5	509.1	512.7	518.6	518.0
37.5°	489.6	491.4	495.5	502.0	502.0
40°	470.8	472.0	477.3	484.3	484.9
42.5°	449.5	452.5	458.4	466.6	465.5
45°	428.3	431.2	440.1	444.2	440.7
47.5°	405.9	409.4	418.3	418.9	407.1
50°	382.9	387.0	397.0	385.2	378.7
52.5°	356.3	364.0	372.8	356.3	352.2
55°	332.1	339.2	345.1	330.4	325.6
57.5°	305.0	314.4	310.3	303.2	297.3
60°	277.3	287.3	281.4	274.3	269.0
62.5°	249.0	260.2	254.3	247.2	242.5
65°	219.5	234.8	225.4	217.7	213.6
67.5°	191.7	206.5	195.3	189.4	185.2
70°	161.6	174.0	168.1	160.5	156.3
72.5°	132.1	141.6	139.8	131.6	128.6
75°	102.1	112.7	111.5	102.6	100.3
77.5°	76.7	86.7	83.2	76.1	73.2
80°	54.3	60.8	57.2	49.0	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)