

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: P259011

Luminaire Tested: **14CZ-LD5-29-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259011
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-L92765-W2A1-U-5700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1859.0 lumens
Efficiency: N/A
Efficacy: 81.6 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

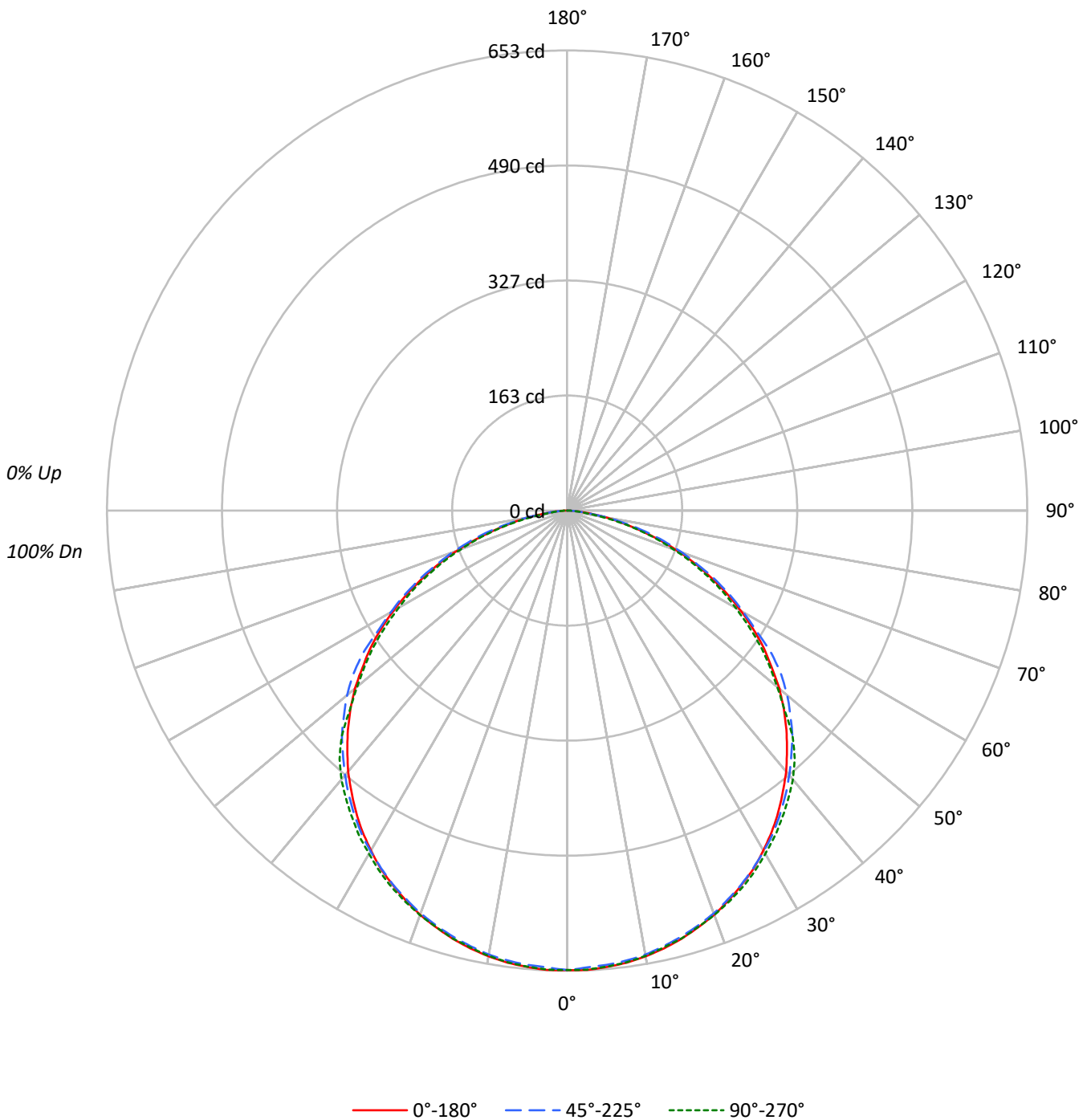
Input Watts (W): 22.785
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	1755	1755	1755
5°	1756	1748	1754
10°	1755	1748	1753
15°	1752	1744	1750
20°	1747	1742	1749
25°	1740	1738	1750
30°	1730	1734	1747
35°	1716	1730	1748
40°	1698	1722	1750
45°	1674	1720	1722
50°	1646	1707	1629
55°	1600	1663	1569
60°	1533	1555	1487
65°	1435	1474	1396
70°	1306	1359	1264
75°	1090	1190	1071
80°	863	911	742
85°	562	488	429



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.7	3.3
10°-20°	177.3	9.5
20°-30°	270.6	14.6
30°-40°	329.9	17.7
40°-50°	345.5	18.6
50°-60°	307.3	16.5
60°-70°	226.8	12.2
70°-80°	117.2	6.3
80°-90°	22.8	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°	509.6	27.4
0°-40°	839.5	45.2
0°-60°	1492.3	80.3
0°-90°	1859.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1859.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	652	652	652	652	652	
5°	650	650	647	650	650	62
15°	629	628	626	628	628	177
25°	586	586	585	590	590	270
35°	522	523	526	533	532	327
45°	440	443	452	456	453	339
55°	341	348	354	339	334	304
65°	225	241	232	224	219	223
75°	105	116	114	105	103	113
85°	18	20	16	14	14	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	652.0	652.0	652.0	652.0	652.0
2.5°	652.6	652.0	648.9	652.0	652.0
5°	650.1	649.5	647.1	649.5	649.5
7.5°	647.1	646.5	644.1	646.5	646.5
10°	642.3	641.7	639.8	642.3	641.7
12.5°	636.2	636.2	633.2	636.2	635.0
15°	628.9	628.3	625.9	628.3	628.3
17.5°	619.8	619.2	617.4	620.5	619.2
20°	610.2	609.5	608.3	611.4	610.8
22.5°	598.6	598.6	596.8	600.5	600.5
25°	585.9	585.9	585.3	589.5	589.5
27.5°	573.2	572.0	572.0	576.2	576.8
30°	556.8	556.8	558.0	562.9	562.3
32.5°	540.5	541.1	543.5	547.7	548.3
35°	522.3	522.9	526.5	532.6	532.0
37.5°	502.9	504.7	509.0	515.6	515.6
40°	483.5	484.7	490.2	497.5	498.1
42.5°	461.7	464.7	470.8	479.3	478.1
45°	439.9	442.9	452.0	456.2	452.6
47.5°	416.9	420.5	429.6	430.2	418.1
50°	393.2	397.5	407.8	395.7	389.0
52.5°	366.0	373.8	382.9	366.0	361.7
55°	341.1	348.4	354.5	339.3	334.5
57.5°	313.3	322.9	318.7	311.4	305.4
60°	284.8	295.1	289.0	281.7	276.3
62.5°	255.7	267.2	261.1	253.9	249.0
65°	225.4	241.2	231.5	223.6	219.3
67.5°	196.9	212.1	200.6	194.5	190.3
70°	166.0	178.7	172.7	164.8	160.6
72.5°	135.7	145.4	143.6	135.1	132.1
75°	104.8	115.7	114.5	105.4	103.0
77.5°	78.8	89.1	85.4	78.2	75.1
80°	55.7	62.4	58.8	50.3	47.9
82.5°	33.9	39.4	33.3	28.5	26.1
85°	18.2	20.0	15.8	14.5	13.9
87.5°	6.7	6.7	6.7	6.1	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)