

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: P259013

Luminaire Tested: **14CZ-LD5-35-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259013
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-LD5-35-RDP-UNV-L92765-W2A1-U-2700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1858.0 lumens
Efficiency: N/A
Efficacy: 68.0 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

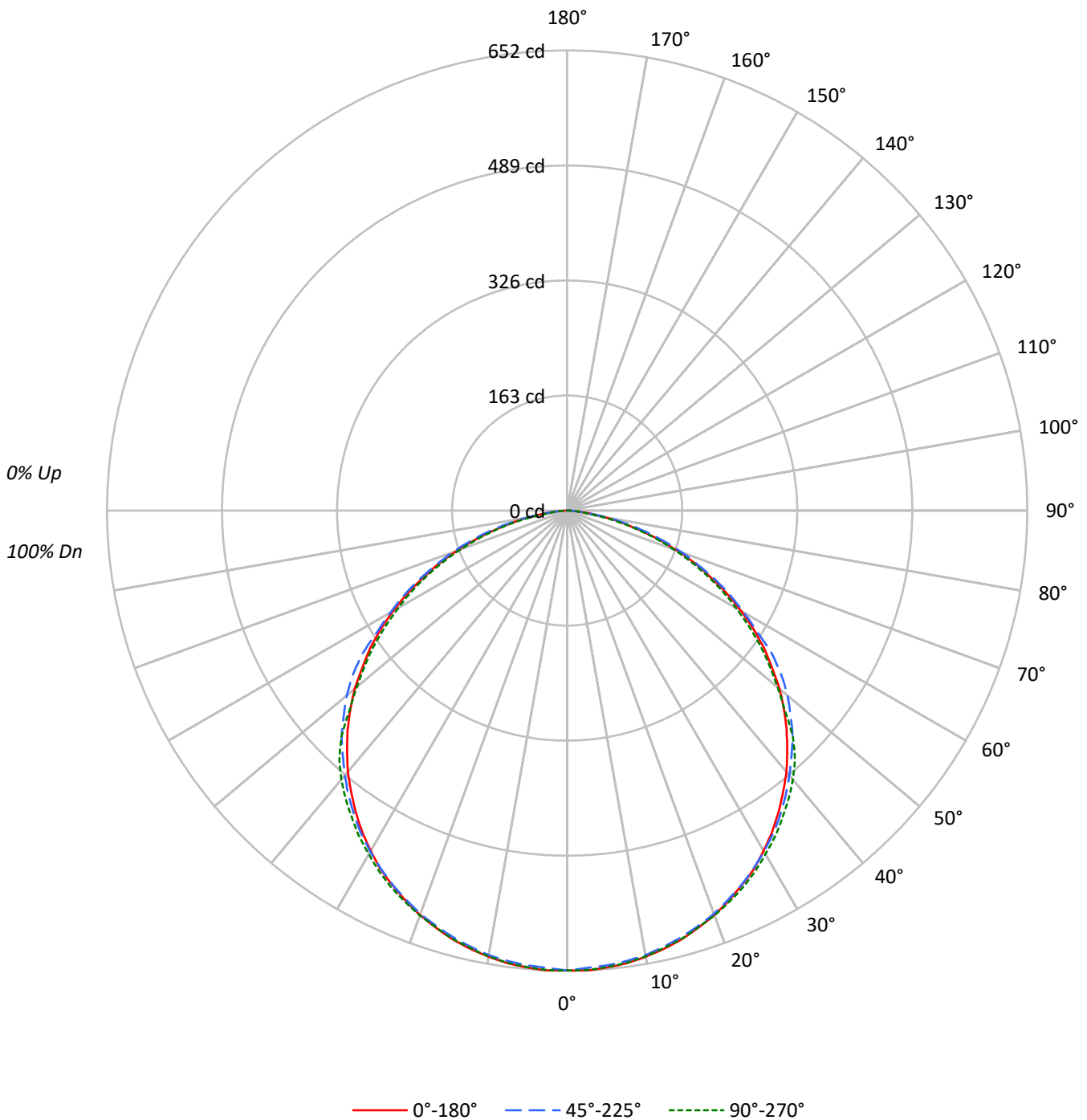
Input Watts (W): 27.342
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1753	1753	1753
5°	1755	1747	1754
10°	1754	1747	1752
15°	1751	1743	1750
20°	1746	1741	1748
25°	1739	1737	1749
30°	1729	1733	1746
35°	1715	1729	1747
40°	1698	1721	1749
45°	1673	1719	1722
50°	1645	1706	1628
55°	1599	1662	1568
60°	1532	1555	1486
65°	1435	1473	1396
70°	1305	1358	1263
75°	1090	1190	1070
80°	863	910	741
85°	562	485	429



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.7	3.3
10°-20°	177.2	9.5
20°-30°	270.5	14.6
30°-40°	329.8	17.7
40°-50°	345.3	18.6
50°-60°	307.2	16.5
60°-70°	226.6	12.2
70°-80°	117.1	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°	509.3	27.4
0°-40°	839.1	45.2
0°-60°	1491.5	80.3
0°-90°	1858.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1858.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	652	652	652	652	652	
5°	650	649	647	649	649	62
15°	629	628	626	628	628	177
25°	586	586	585	589	589	270
35°	522	523	526	532	532	326
45°	440	443	452	456	452	339
55°	341	348	354	339	334	304
65°	225	241	231	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°	651.6	651.6	651.6	651.6	651.6
2.5°	652.2	651.6	648.6	651.6	651.6
5°	649.8	649.2	646.8	649.2	649.2
7.5°	646.8	646.2	643.7	646.2	646.2
10°	641.9	641.3	639.5	641.9	641.3
12.5°	635.9	635.9	632.8	635.9	634.7
15°	628.6	628.0	625.6	628.0	628.0
17.5°	619.5	618.9	617.1	620.1	618.9
20°	609.8	609.2	608.0	611.0	610.4
22.5°	598.3	598.3	596.5	600.1	600.1
25°	585.6	585.6	585.0	589.2	589.2
27.5°	572.9	571.7	571.7	575.9	576.5
30°	556.5	556.5	557.7	562.6	562.0
32.5°	540.2	540.8	543.2	547.4	548.1
35°	522.0	522.6	526.3	532.3	531.7
37.5°	502.6	504.5	508.7	515.4	515.4
40°	483.3	484.5	489.9	497.2	497.8
42.5°	461.5	464.5	470.5	479.0	477.8
45°	439.7	442.7	451.8	456.0	452.4
47.5°	416.6	420.3	429.4	430.0	417.9
50°	393.0	397.3	407.6	395.4	388.8
52.5°	365.8	373.6	382.7	365.8	361.5
55°	340.9	348.2	354.3	339.1	334.3
57.5°	313.1	322.8	318.5	311.3	305.2
60°	284.6	294.9	288.9	281.6	276.1
62.5°	255.6	267.1	261.0	253.7	248.9
65°	225.3	241.0	231.3	223.5	219.2
67.5°	196.8	212.0	200.4	194.4	190.2
70°	165.9	178.6	172.6	164.7	160.5
72.5°	135.7	145.3	143.5	135.0	132.0
75°	104.8	115.7	114.5	105.4	102.9
77.5°	78.7	89.0	85.4	78.1	75.1
80°	55.7	62.4	58.7	50.3	47.8
82.5°	33.9	39.4	33.3	28.5	26.0
85°	18.2	20.0	15.7	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)