

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: P258951

Luminaire Tested: **14CZ-LD5-29-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258951
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-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1862.0 lumens
Efficiency: N/A
Efficacy: 84.8 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

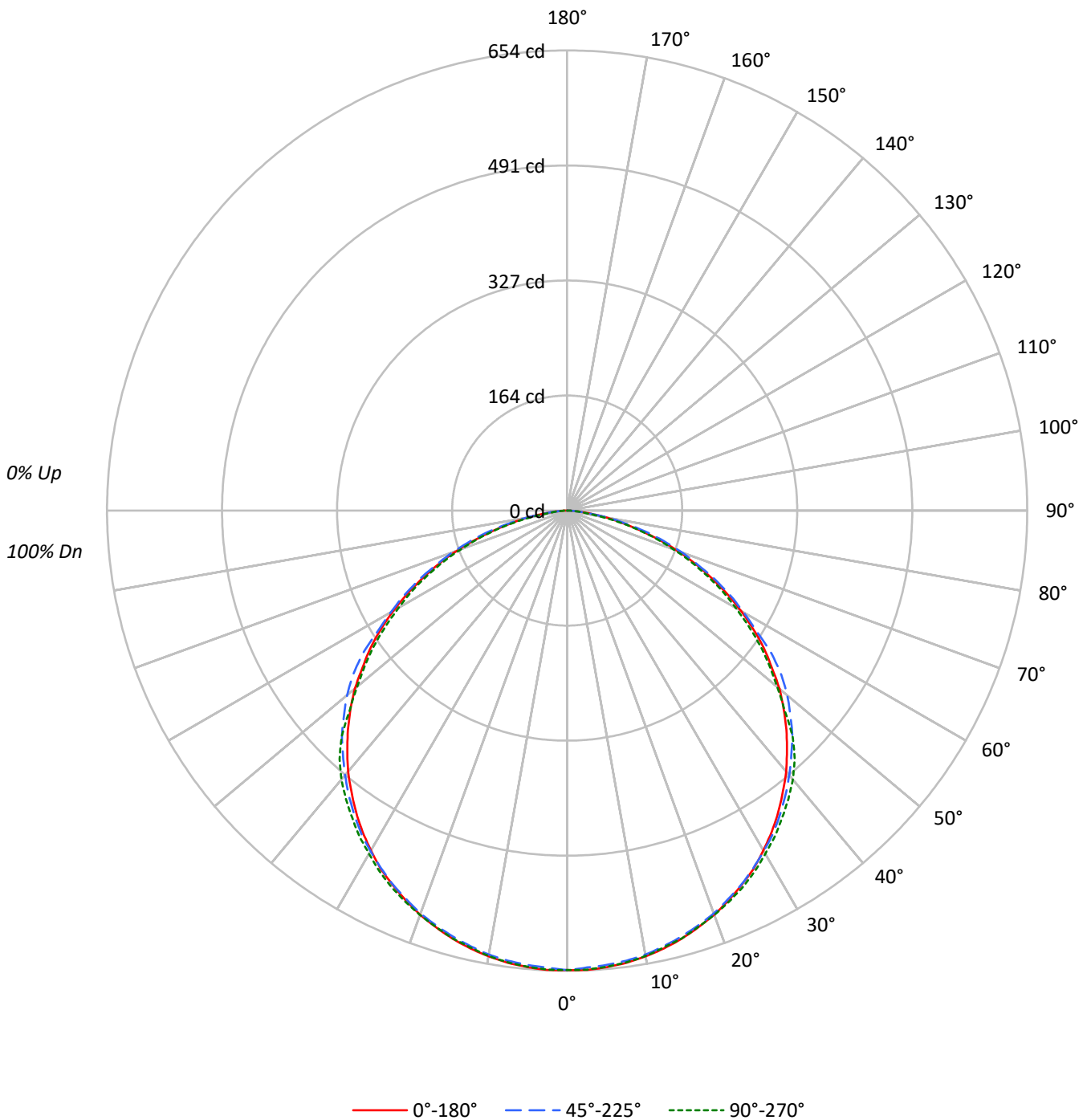
Input Watts (W): 21.948
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1757	1757	1757
5°	1759	1751	1757
10°	1758	1751	1756
15°	1755	1746	1753
20°	1750	1745	1752
25°	1743	1741	1753
30°	1733	1737	1750
35°	1718	1733	1750
40°	1701	1725	1753
45°	1677	1723	1725
50°	1649	1710	1631
55°	1603	1666	1572
60°	1535	1558	1489
65°	1438	1476	1399
70°	1308	1361	1265
75°	1092	1193	1073
80°	865	913	742
85°	562	488	432



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.8	3.3
10°-20°	177.6	9.5
20°-30°	271.0	14.6
30°-40°	330.5	17.7
40°-50°	346.0	18.6
50°-60°	307.8	16.5
60°-70°	227.1	12.2
70°-80°	117.4	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°	510.4	27.4
0°-40°	840.9	45.2
0°-60°	1494.7	80.3
0°-90°	1862.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1862.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	653	653	653	653	653	
5°	651	651	648	651	651	62
15°	630	629	627	629	629	178
25°	587	587	586	590	590	271
35°	523	524	527	534	533	327
45°	441	444	453	457	453	340
55°	342	349	355	340	335	304
65°	226	242	232	224	220	224
75°	105	116	115	106	103	114
85°	18	20	16	15	14	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	653.0	653.0	653.0	653.0	653.0
2.5°	653.6	653.0	650.0	653.0	653.0
5°	651.2	650.6	648.2	650.6	650.6
7.5°	648.2	647.5	645.1	647.5	647.5
10°	643.3	642.7	640.9	643.3	642.7
12.5°	637.2	637.2	634.2	637.2	636.0
15°	629.9	629.3	626.9	629.3	629.3
17.5°	620.8	620.2	618.4	621.5	620.2
20°	611.1	610.5	609.3	612.3	611.7
22.5°	599.6	599.6	597.8	601.4	601.4
25°	586.9	586.9	586.3	590.5	590.5
27.5°	574.1	572.9	572.9	577.1	577.8
30°	557.7	557.7	558.9	563.8	563.2
32.5°	541.3	542.0	544.4	548.6	549.2
35°	523.1	523.7	527.4	533.5	532.8
37.5°	503.7	505.5	509.8	516.5	516.5
40°	484.3	485.5	491.0	498.3	498.9
42.5°	462.4	465.5	471.6	480.0	478.8
45°	440.6	443.6	452.7	457.0	453.3
47.5°	417.5	421.2	430.3	430.9	418.8
50°	393.9	398.1	408.4	396.3	389.6
52.5°	366.6	374.4	383.6	366.6	362.3
55°	341.7	349.0	355.0	339.9	335.0
57.5°	313.8	323.5	319.2	311.9	305.9
60°	285.2	295.6	289.5	282.2	276.7
62.5°	256.1	267.6	261.6	254.3	249.4
65°	225.8	241.5	231.8	223.9	219.7
67.5°	197.2	212.4	200.9	194.8	190.6
70°	166.3	179.0	173.0	165.1	160.8
72.5°	135.9	145.7	143.8	135.3	132.3
75°	105.0	115.9	114.7	105.6	103.2
77.5°	78.9	89.2	85.6	78.3	75.3
80°	55.8	62.5	58.9	50.4	47.9
82.5°	34.0	39.4	33.4	28.5	26.1
85°	18.2	20.0	15.8	14.6	14.0
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)