

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: P259009

Luminaire Tested: **14CZ-LD5-29-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P259009  
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-5000K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1823.0 lumens  
Efficiency: N/A  
Efficacy: 80.3 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

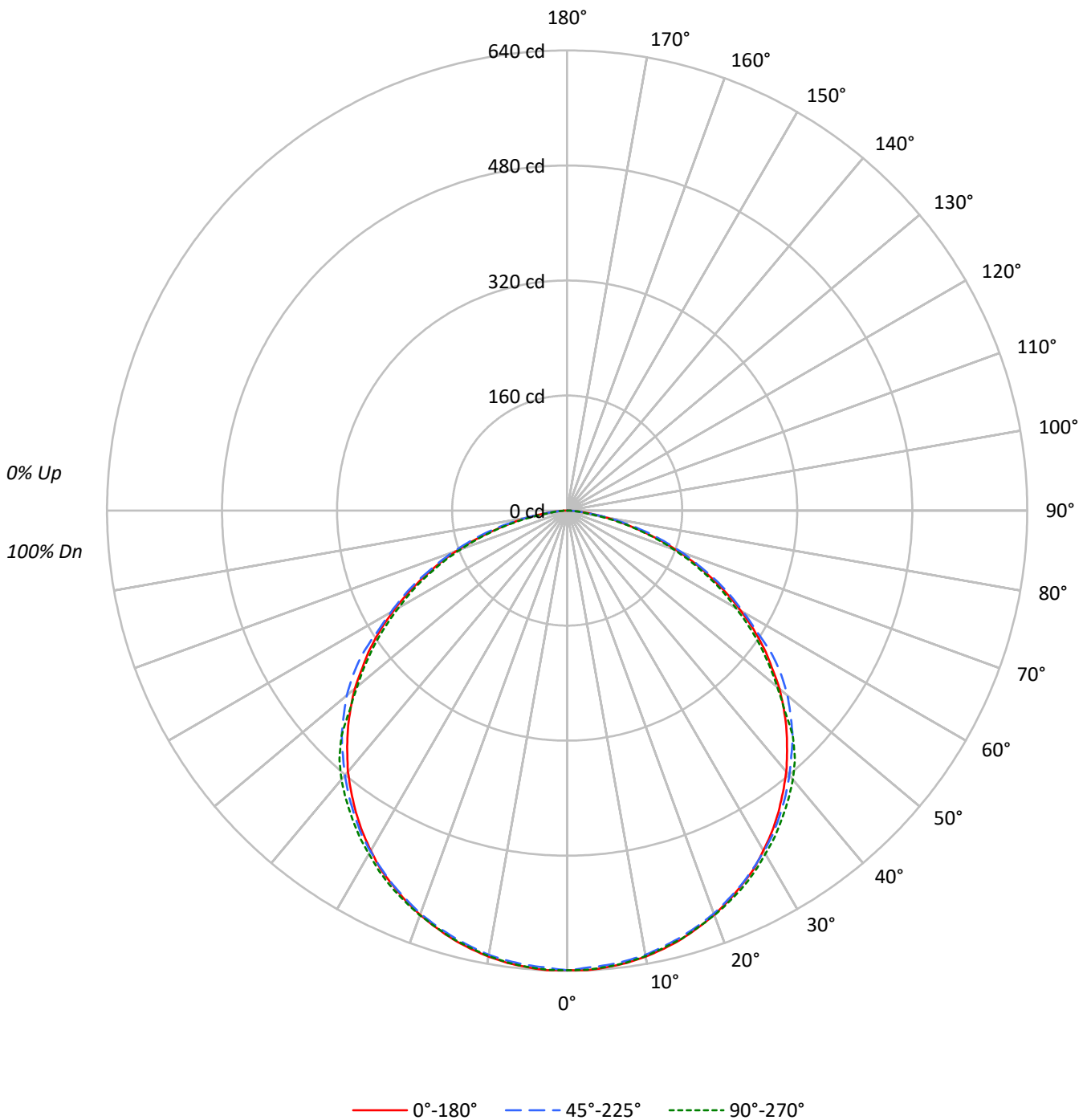
Input Watts (W): 22.692  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1720	1720	1720
5°	1722	1714	1721
10°	1721	1714	1719
15°	1718	1710	1717
20°	1713	1708	1715
25°	1706	1704	1716
30°	1697	1700	1713
35°	1683	1696	1714
40°	1666	1689	1716
45°	1642	1687	1689
50°	1614	1674	1597
55°	1569	1631	1539
60°	1503	1525	1458
65°	1407	1445	1370
70°	1281	1332	1239
75°	1069	1168	1050
80°	848	893	727
85°	550	475	423



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.5	3.3
10°-20°	173.8	9.5
20°-30°	265.4	14.6
30°-40°	323.5	17.7
40°-50°	338.8	18.6
50°-60°	301.4	16.5
60°-70°	222.4	12.2
70°-80°	114.9	6.3
80°-90°	22.3	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°	499.7	27.4
0°-40°	823.3	45.2
0°-60°	1463.4	80.3
0°-90°	1823.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1823.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	639	639	639	639	639	
5°	638	637	635	637	637	61
15°	617	616	614	616	616	174
25°	575	575	574	578	578	265
35°	512	513	516	522	522	320
45°	431	434	443	447	444	333
55°	334	342	348	333	328	298
65°	221	236	227	219	215	219
75°	103	114	112	103	101	111
85°	18	20	15	14	14	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	639.3	639.3	639.3	639.3	639.3
2.5°	639.9	639.3	636.4	639.3	639.3
5°	637.6	637.0	634.6	637.0	637.0
7.5°	634.6	634.0	631.6	634.0	634.0
10°	629.8	629.2	627.4	629.8	629.2
12.5°	623.9	623.9	620.9	623.9	622.7
15°	616.8	616.2	613.8	616.2	616.2
17.5°	607.8	607.2	605.5	608.4	607.2
20°	598.3	597.7	596.6	599.5	598.9
22.5°	587.0	587.0	585.3	588.8	588.8
25°	574.6	574.6	574.0	578.1	578.1
27.5°	562.1	560.9	560.9	565.1	565.7
30°	546.0	546.0	547.2	552.0	551.4
32.5°	530.0	530.6	533.0	537.1	537.7
35°	512.2	512.8	516.3	522.3	521.7
37.5°	493.2	494.9	499.1	505.6	505.6
40°	474.2	475.3	480.7	487.8	488.4
42.5°	452.8	455.7	461.7	470.0	468.8
45°	431.4	434.3	443.3	447.4	443.8
47.5°	408.8	412.4	421.3	421.9	410.0
50°	385.6	389.8	399.9	388.0	381.5
52.5°	358.9	366.6	375.5	358.9	354.7
55°	334.5	341.7	347.6	332.7	328.0
57.5°	307.2	316.7	312.5	305.4	299.5
60°	279.3	289.4	283.4	276.3	270.9
62.5°	250.7	262.0	256.1	249.0	244.2
65°	221.0	236.5	227.0	219.3	215.1
67.5°	193.1	208.0	196.7	190.7	186.6
70°	162.8	175.3	169.3	161.6	157.5
72.5°	133.1	142.6	140.8	132.5	129.5
75°	102.8	113.5	112.3	103.4	101.0
77.5°	77.2	87.3	83.8	76.6	73.7
80°	54.7	61.2	57.6	49.3	46.9
82.5°	33.3	38.6	32.7	27.9	25.5
85°	17.8	19.6	15.4	14.3	13.7
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)