

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: P258676

Luminaire Tested: **14CZ-LD5-29-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258676  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35573)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ-LD5-29-UNV-L92765-W2A1-U-6500K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2790.0 lumens  
Efficiency: N/A  
Efficacy: 120.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

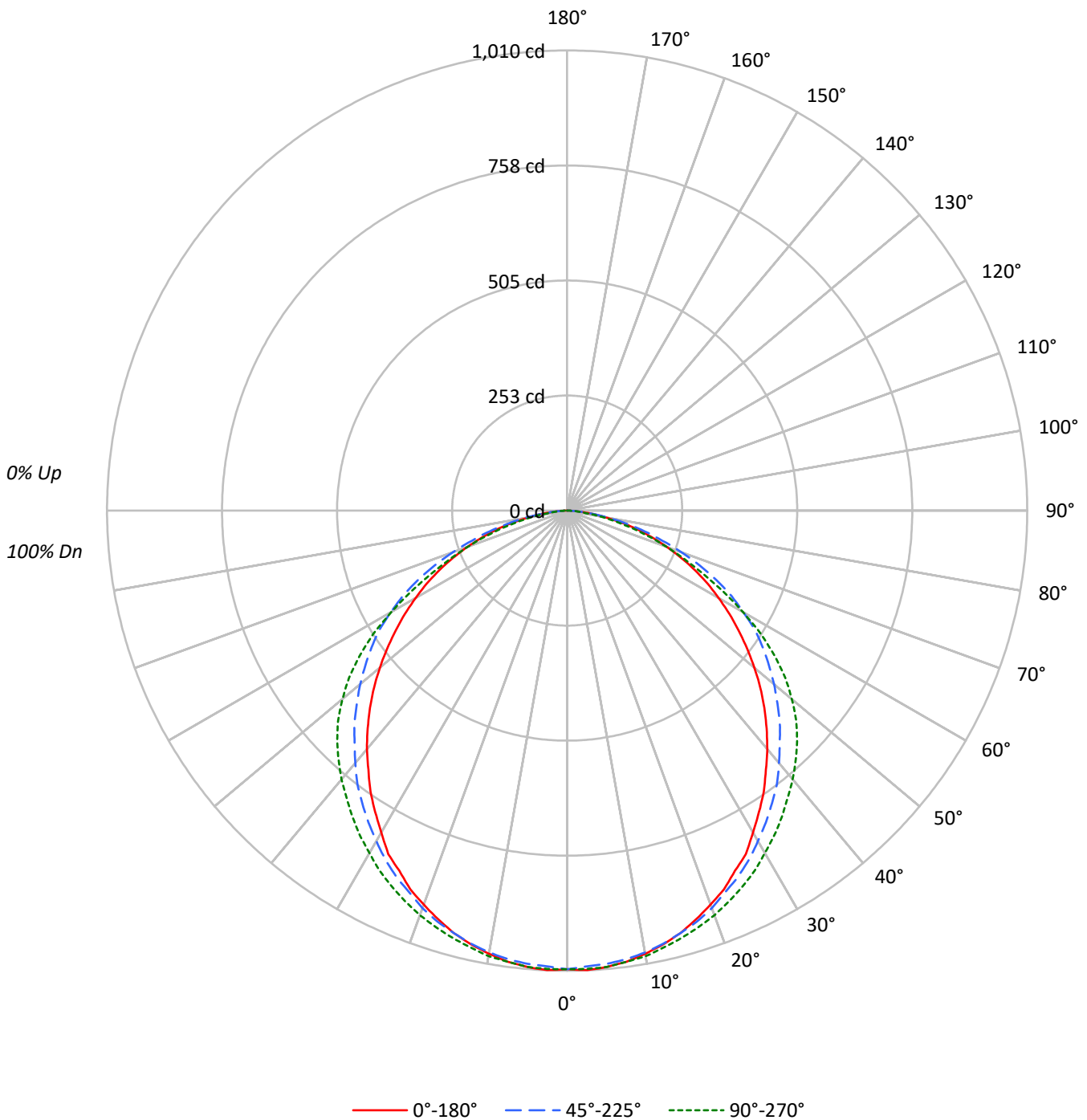
Input Watts (W): 23.157  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2709	2709	2709
5°	2716	2697	2716
10°	2699	2691	2714
15°	2675	2675	2705
20°	2635	2659	2706
25°	2589	2634	2704
30°	2534	2603	2697
35°	2472	2576	2697
40°	2401	2542	2706
45°	2329	2512	2717
50°	2246	2482	2695
55°	2155	2458	2607
60°	2066	2406	2398
65°	1971	2303	2102
70°	1829	2099	1818
75°	1659	1831	1501
80°	1322	1449	1108
85°	936	806	636



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.3	3.4
10°-20°	272.1	9.8
20°-30°	410.3	14.7
30°-40°	491.8	17.6
40°-50°	510.4	18.3
50°-60°	460.4	16.5
60°-70°	335.8	12.0
70°-80°	176.2	6.3
80°-90°	37.6	1.3
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°	777.7	27.9
0°-40°	1269.6	45.5
0°-60°	2240.4	80.3
0°-90°	2790.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2790.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1007	1007	1007	1007	1007	
5°	1006	1003	999	1006	1006	95
15°	960	960	960	971	971	270
25°	872	876	887	906	911	402
35°	752	761	784	813	821	470
45°	612	624	660	700	714	472
55°	459	476	524	558	556	411
65°	310	327	362	348	330	306
75°	160	182	176	153	144	167
85°	30	37	26	22	21	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1006.8	1006.8	1006.8	1006.8	1006.8
2.5°	1009.6	1006.8	1001.3	1006.8	1006.8
5°	1005.5	1002.7	998.6	1005.5	1005.5
7.5°	998.6	995.8	993.1	1000.0	998.6
10°	987.6	986.2	984.8	993.1	993.1
12.5°	975.2	975.2	973.8	983.4	982.1
15°	960.1	960.1	960.1	971.1	971.1
17.5°	940.8	943.6	946.3	958.7	958.7
20°	920.2	922.9	928.4	943.6	944.9
22.5°	899.5	900.9	906.4	924.3	928.4
25°	872.0	876.2	887.2	906.4	910.6
27.5°	850.0	851.4	863.8	885.8	891.3
30°	815.6	825.3	837.7	862.4	867.9
32.5°	784.0	792.3	811.5	837.7	845.9
35°	752.4	760.6	784.0	812.9	821.1
37.5°	716.6	729.0	756.5	785.4	795.0
40°	683.6	694.6	723.5	759.3	770.3
42.5°	647.8	658.8	690.5	730.4	742.7
45°	612.1	624.5	660.2	700.1	713.9
47.5°	574.9	588.7	625.8	669.8	682.2
50°	536.4	551.6	592.8	638.2	643.7
52.5°	497.9	514.4	558.4	598.3	603.8
55°	459.4	475.9	524.0	558.4	555.7
57.5°	422.3	440.1	489.7	507.5	504.8
60°	383.8	403.0	447.0	455.3	445.6
62.5°	348.0	365.9	407.1	400.3	387.9
65°	309.5	327.4	361.7	348.0	330.1
67.5°	271.0	293.0	315.0	291.6	277.8
70°	232.5	257.2	266.8	243.5	231.1
72.5°	195.3	221.4	218.7	195.3	187.1
75°	159.6	181.6	176.1	152.7	144.4
77.5°	121.0	145.8	133.4	114.2	107.3
80°	85.3	107.3	93.5	77.0	71.5
82.5°	56.4	71.5	57.8	45.4	41.3
85°	30.3	37.1	26.1	22.0	20.6
87.5°	12.4	11.0	9.6	9.6	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)