

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: P258673

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258673  
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-5000K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2718.0 lumens  
Efficiency: N/A  
Efficacy: 119.8 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

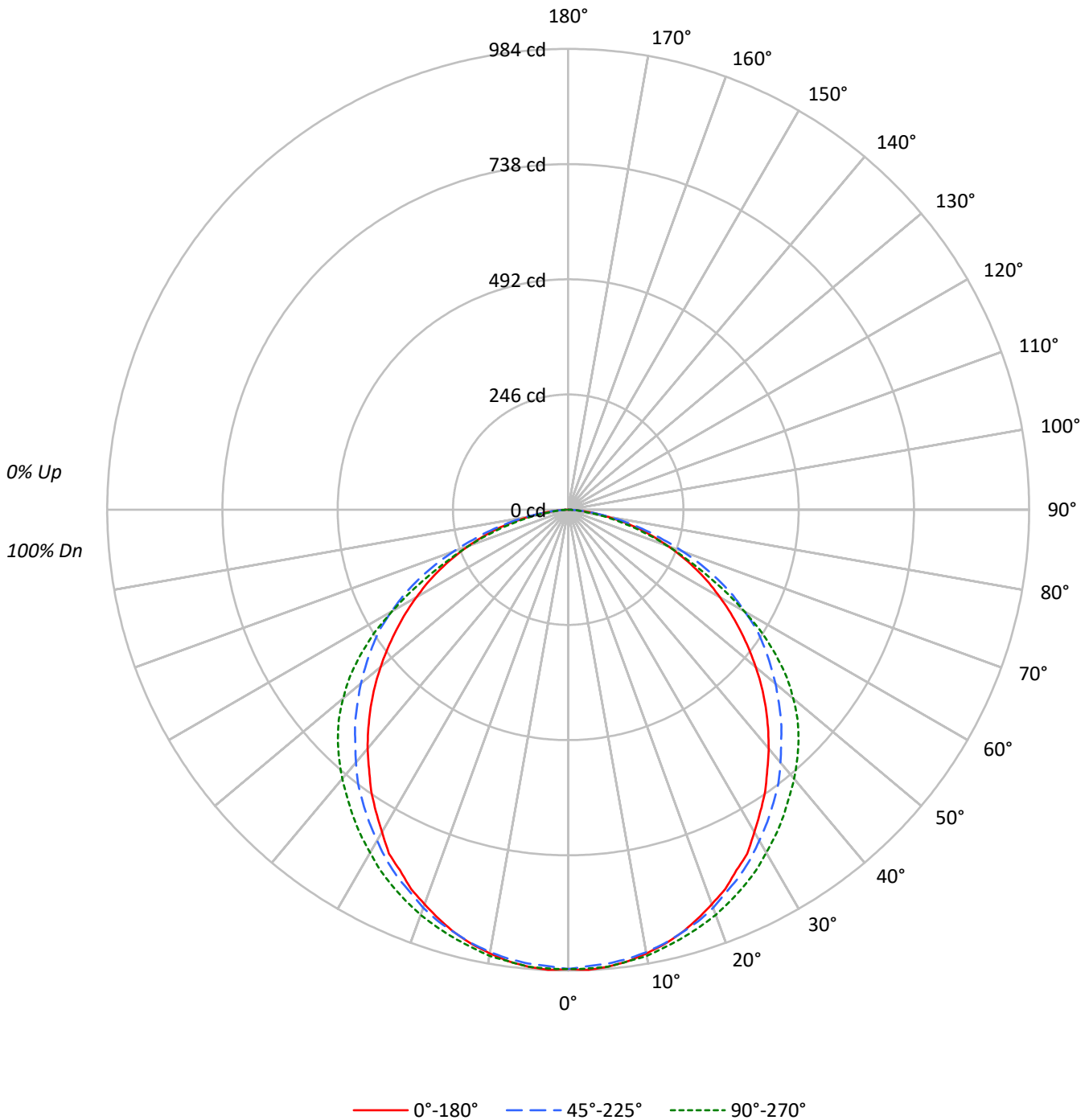
Input Watts (W): 22.692  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2639	2639	2639
5°	2646	2628	2646
10°	2629	2622	2643
15°	2606	2606	2635
20°	2567	2590	2636
25°	2522	2566	2634
30°	2469	2536	2627
35°	2408	2509	2628
40°	2340	2476	2636
45°	2269	2448	2646
50°	2188	2418	2625
55°	2099	2395	2540
60°	2012	2344	2336
65°	1920	2244	2048
70°	1782	2046	1771
75°	1616	1783	1463
80°	1288	1412	1080
85°	911	787	621



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.8	3.4
10°-20°	265.1	9.8
20°-30°	399.7	14.7
30°-40°	479.2	17.6
40°-50°	497.2	18.3
50°-60°	448.5	16.5
60°-70°	327.2	12.0
70°-80°	171.6	6.3
80°-90°	36.6	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°	757.7	27.9
0°-40°	1236.8	45.5
0°-60°	2182.6	80.3
0°-90°	2718.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2718.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	981	981	981	981	981	
5°	980	977	973	980	980	93
15°	935	935	935	946	946	263
25°	850	854	864	883	887	392
35°	733	741	764	792	800	458
45°	596	608	643	682	695	460
55°	448	464	510	544	541	401
65°	302	319	352	339	322	298
75°	155	177	172	149	141	163
85°	30	36	26	21	20	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	980.8	980.8	980.8	980.8	980.8
2.5°	983.5	980.8	975.5	980.8	980.8
5°	979.5	976.8	972.8	979.5	979.5
7.5°	972.8	970.1	967.4	974.1	972.8
10°	962.1	960.7	959.4	967.4	967.4
12.5°	950.0	950.0	948.7	958.1	956.7
15°	935.3	935.3	935.3	946.0	946.0
17.5°	916.5	919.2	921.9	934.0	934.0
20°	896.4	899.1	904.5	919.2	920.6
22.5°	876.3	877.7	883.0	900.5	904.5
25°	849.5	853.6	864.3	883.0	887.1
27.5°	828.1	829.4	841.5	862.9	868.3
30°	794.6	804.0	816.0	840.2	845.5
32.5°	763.8	771.8	790.6	816.0	824.1
35°	733.0	741.0	763.8	791.9	800.0
37.5°	698.1	710.2	737.0	765.1	774.5
40°	666.0	676.7	704.8	739.7	750.4
42.5°	631.1	641.8	672.7	711.5	723.6
45°	596.3	608.3	643.2	682.0	695.4
47.5°	560.1	573.5	609.7	652.6	664.6
50°	522.6	537.3	577.5	621.7	627.1
52.5°	485.1	501.1	544.0	582.9	588.2
55°	447.5	463.6	510.5	544.0	541.3
57.5°	411.4	428.8	477.0	494.4	491.8
60°	373.8	392.6	435.5	443.5	434.1
62.5°	339.0	356.4	396.6	389.9	377.9
65°	301.5	318.9	352.4	339.0	321.6
67.5°	264.0	285.4	306.9	284.1	270.7
70°	226.5	250.6	260.0	237.2	225.1
72.5°	190.3	215.7	213.1	190.3	182.2
75°	155.4	176.9	171.5	148.7	140.7
77.5°	117.9	142.0	130.0	111.2	104.5
80°	83.1	104.5	91.1	75.0	69.7
82.5°	54.9	69.7	56.3	44.2	40.2
85°	29.5	36.2	25.5	21.4	20.1
87.5°	12.1	10.7	9.4	9.4	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)