

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: P258674

Luminaire Tested: **14CZ-LD5-29-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258674  
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-5500K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2760.0 lumens  
Efficiency: N/A  
Efficacy: 121.1 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

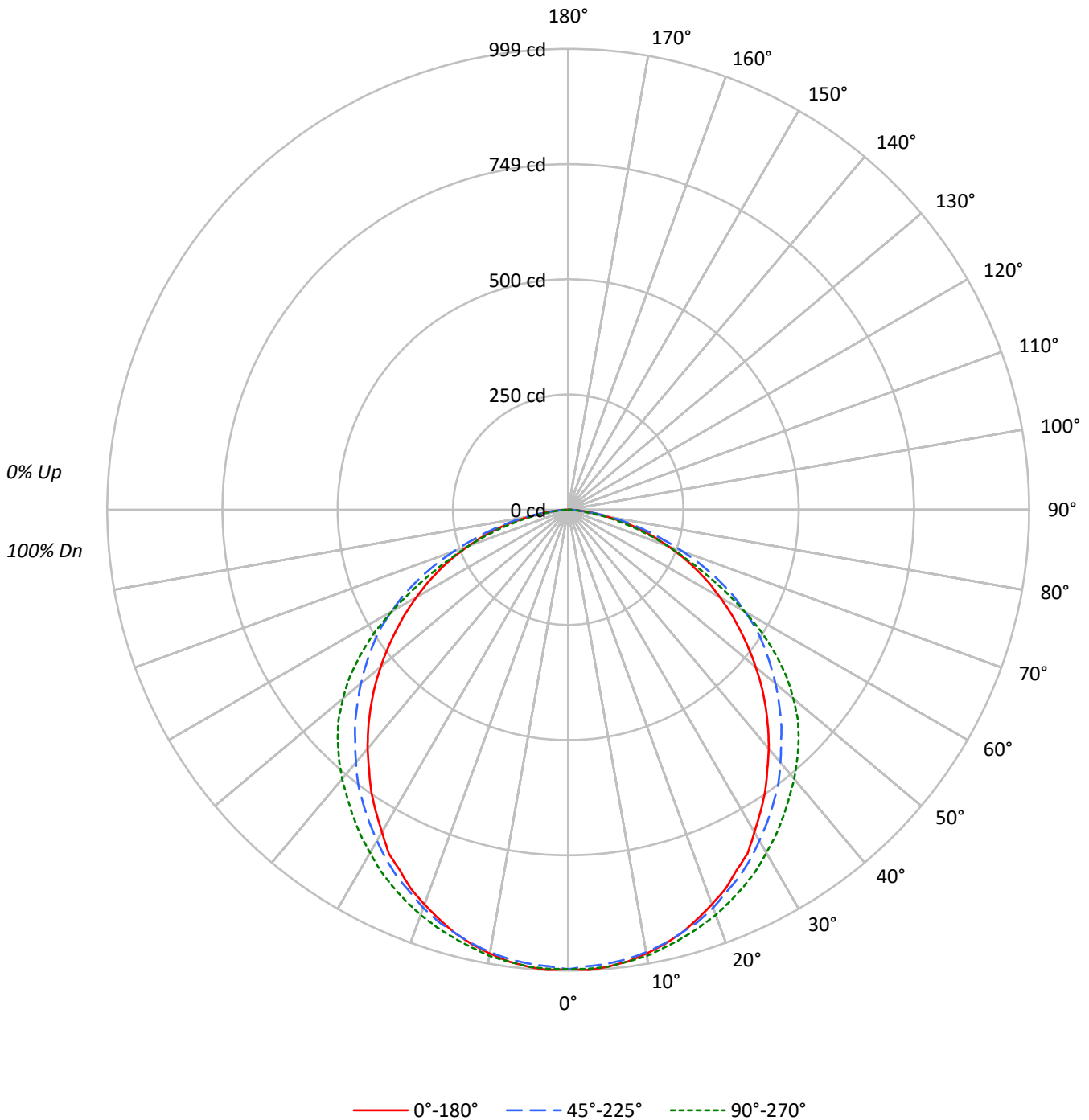
Input Watts (W): 22.785  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2680	2680	2680
5°	2687	2668	2687
10°	2670	2662	2684
15°	2646	2646	2676
20°	2607	2630	2677
25°	2561	2606	2675
30°	2507	2575	2668
35°	2445	2548	2668
40°	2375	2514	2677
45°	2304	2485	2688
50°	2222	2455	2666
55°	2132	2432	2579
60°	2043	2380	2373
65°	1949	2279	2080
70°	1810	2077	1799
75°	1641	1811	1486
80°	1308	1433	1097
85°	923	800	630



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.2	3.4
10°-20°	269.2	9.8
20°-30°	405.9	14.7
30°-40°	486.6	17.6
40°-50°	504.9	18.3
50°-60°	455.4	16.5
60°-70°	332.2	12.0
70°-80°	174.3	6.3
80°-90°	37.2	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°	769.4	27.9
0°-40°	1255.9	45.5
0°-60°	2216.3	80.3
0°-90°	2760.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2760.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	996	996	996	996	996	
5°	995	992	988	995	995	94
15°	950	950	950	961	961	268
25°	863	867	878	897	901	398
35°	744	752	776	804	812	465
45°	606	618	653	693	706	467
55°	454	471	518	552	550	407
65°	306	324	358	344	327	303
75°	158	180	174	151	143	166
85°	30	37	26	22	20	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	996.0	996.0	996.0	996.0	996.0
2.5°	998.7	996.0	990.6	996.0	996.0
5°	994.6	991.9	987.8	994.6	994.6
7.5°	987.8	985.1	982.4	989.2	987.8
10°	977.0	975.6	974.2	982.4	982.4
12.5°	964.7	964.7	963.3	972.9	971.5
15°	949.7	949.7	949.7	960.6	960.6
17.5°	930.7	933.4	936.1	948.4	948.4
20°	910.3	913.0	918.4	933.4	934.8
22.5°	889.9	891.2	896.7	914.4	918.4
25°	862.7	866.7	877.6	896.7	900.8
27.5°	840.9	842.3	854.5	876.3	881.7
30°	806.9	816.4	828.6	853.1	858.6
32.5°	775.6	783.7	802.8	828.6	836.8
35°	744.3	752.4	775.6	804.2	812.3
37.5°	708.9	721.2	748.4	776.9	786.5
40°	676.2	687.1	715.7	751.1	762.0
42.5°	640.9	651.8	683.1	722.5	734.8
45°	605.5	617.7	653.1	692.6	706.2
47.5°	568.8	582.4	619.1	662.6	674.9
50°	530.7	545.6	586.4	631.3	636.8
52.5°	492.6	508.9	552.4	591.9	597.3
55°	454.5	470.8	518.4	552.4	549.7
57.5°	417.7	435.4	484.4	502.1	499.4
60°	379.6	398.7	442.2	450.4	440.9
62.5°	344.2	361.9	402.8	396.0	383.7
65°	306.1	323.8	357.9	344.2	326.6
67.5°	268.1	289.8	311.6	288.5	274.9
70°	230.0	254.4	264.0	240.8	228.6
72.5°	193.2	219.1	216.3	193.2	185.1
75°	157.8	179.6	174.2	151.0	142.9
77.5°	119.7	144.2	132.0	112.9	106.1
80°	84.4	106.1	92.5	76.2	70.8
82.5°	55.8	70.8	57.1	44.9	40.8
85°	29.9	36.7	25.9	21.8	20.4
87.5°	12.2	10.9	9.5	9.5	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)