

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: P258672

Luminaire Tested: **14CZ-LD5-29-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258672  
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-4500K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2664.0 lumens  
Efficiency: N/A  
Efficacy: 118.4 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

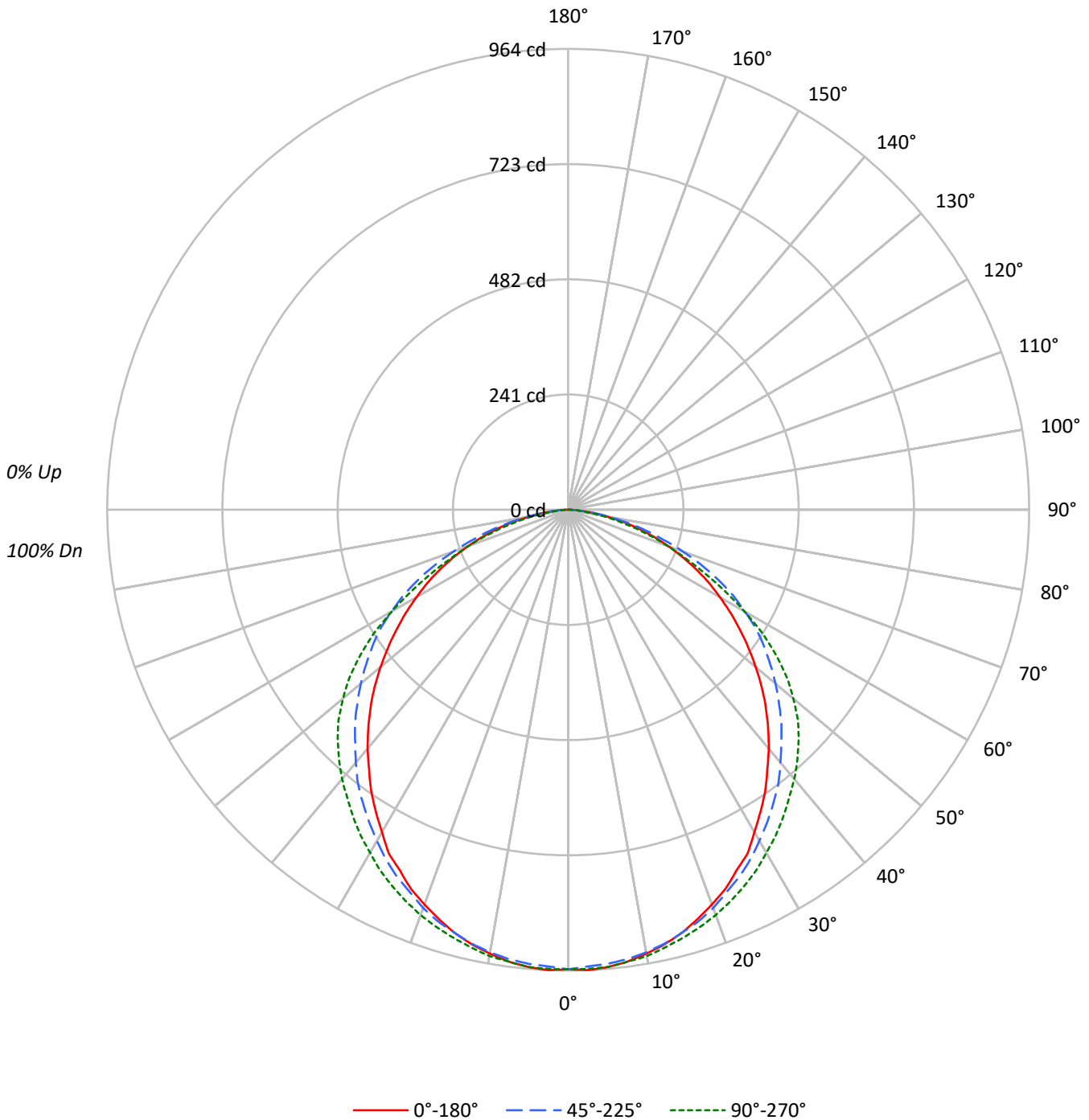
Input Watts (W): 22.506  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2587	2587	2587
5°	2593	2576	2593
10°	2577	2569	2591
15°	2554	2554	2583
20°	2516	2539	2584
25°	2472	2515	2581
30°	2420	2485	2575
35°	2360	2459	2576
40°	2293	2427	2584
45°	2224	2399	2594
50°	2144	2370	2573
55°	2058	2348	2489
60°	1972	2297	2290
65°	1882	2199	2007
70°	1747	2005	1736
75°	1583	1748	1434
80°	1261	1384	1058
85°	892	772	608



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.0	3.4
10°-20°	259.9	9.8
20°-30°	391.8	14.7
30°-40°	469.6	17.6
40°-50°	487.4	18.3
50°-60°	439.6	16.5
60°-70°	320.7	12.0
70°-80°	168.2	6.3
80°-90°	35.9	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°	742.6	27.9
0°-40°	1212.3	45.5
0°-60°	2139.2	80.3
0°-90°	2664.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2664.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	961	961	961	961	961	
5°	960	957	954	960	960	91
15°	917	917	917	927	927	258
25°	833	837	847	866	869	384
35°	718	726	749	776	784	449
45°	584	596	630	668	682	450
55°	439	454	500	533	531	393
65°	296	313	345	332	315	292
75°	152	173	168	146	138	160
85°	29	36	25	21	20	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	961.4	961.4	961.4	961.4	961.4
2.5°	964.0	961.4	956.1	961.4	961.4
5°	960.0	957.4	953.5	960.0	960.0
7.5°	953.5	950.9	948.2	954.8	953.5
10°	943.0	941.7	940.3	948.2	948.2
12.5°	931.2	931.2	929.8	939.0	937.7
15°	916.7	916.7	916.7	927.2	927.2
17.5°	898.3	900.9	903.6	915.4	915.4
20°	878.6	881.2	886.5	900.9	902.3
22.5°	858.9	860.2	865.5	882.6	886.5
25°	832.7	836.6	847.1	865.5	869.4
27.5°	811.6	813.0	824.8	845.8	851.0
30°	778.8	788.0	799.8	823.5	828.7
32.5°	748.6	756.5	774.9	799.8	807.7
35°	718.4	726.3	748.6	776.2	784.1
37.5°	684.2	696.1	722.3	749.9	759.1
40°	652.7	663.2	690.8	725.0	735.5
42.5°	618.6	629.1	659.3	697.4	709.2
45°	584.4	596.3	630.4	668.5	681.6
47.5°	549.0	562.1	597.6	639.6	651.4
50°	512.2	526.6	566.0	609.4	614.6
52.5°	475.4	491.2	533.2	571.3	576.6
55°	438.7	454.4	500.4	533.2	530.6
57.5°	403.2	420.3	467.5	484.6	482.0
60°	366.4	384.8	426.8	434.7	425.5
62.5°	332.3	349.3	388.7	382.2	370.4
65°	295.5	312.6	345.4	332.3	315.2
67.5°	258.7	279.7	300.8	278.4	265.3
70°	222.0	245.6	254.8	232.5	220.6
72.5°	186.5	211.4	208.8	186.5	178.6
75°	152.3	173.4	168.1	145.8	137.9
77.5°	115.6	139.2	127.4	109.0	102.4
80°	81.4	102.4	89.3	73.5	68.3
82.5°	53.8	68.3	55.2	43.3	39.4
85°	28.9	35.5	25.0	21.0	19.7
87.5°	11.8	10.5	9.2	9.2	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)