

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: P#

Luminaire Tested: **14CZ-LD5-29-UNV-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35608)  
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-L830-CD1-U  
Description: CRUZE 1x4 LED TROFFER

Light Source: -  
Ballast/Driver: -

**Summary**

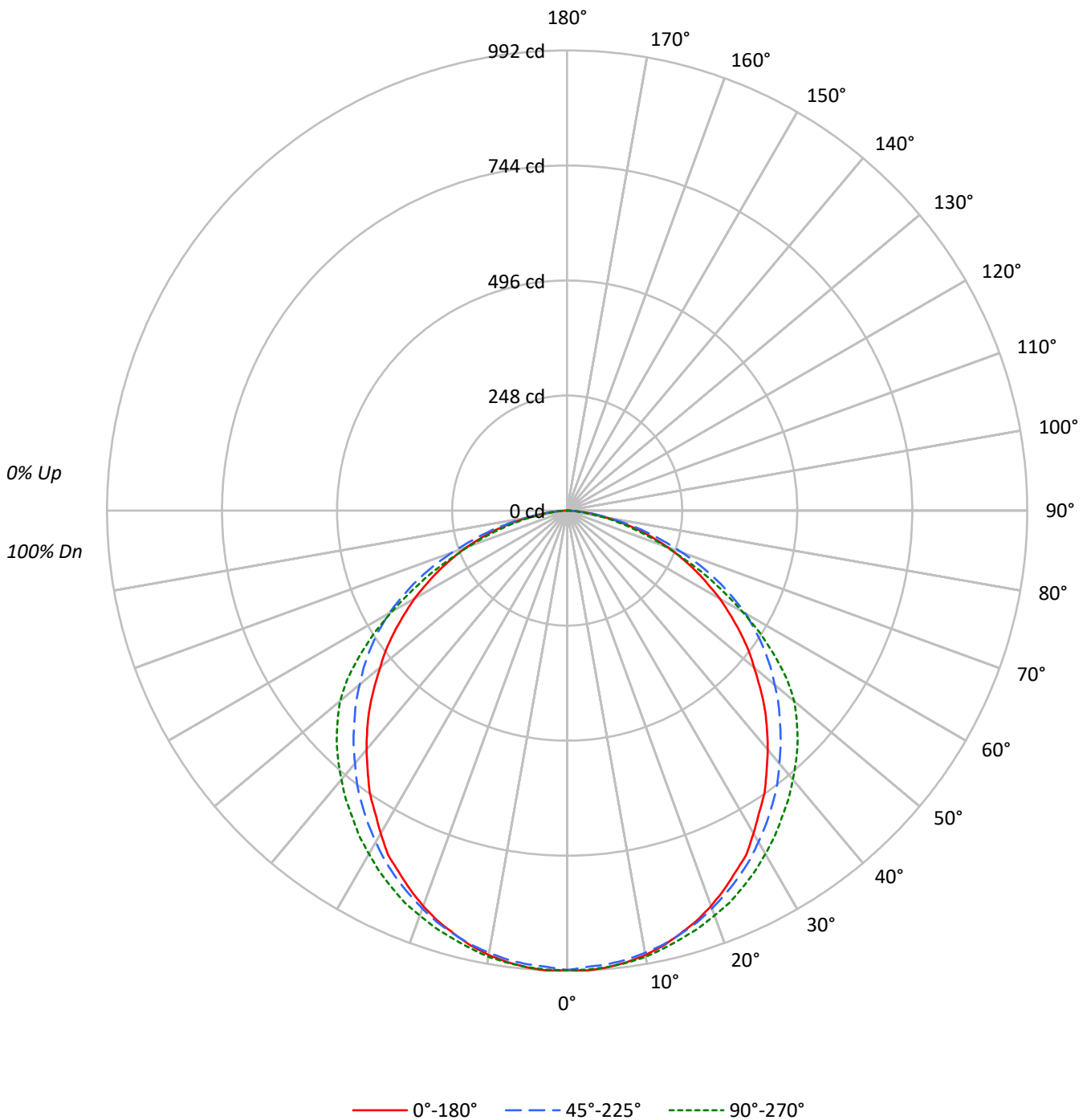
Lumens per Lamp: N/A  
Luminaire Lumens: 2746.8 lumens  
Efficiency: N/A  
Efficacy: 112.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 24.53  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	2666	2666	2666
5°	2665	2632	2645
10°	2647	2605	2623
15°	2612	2572	2591
20°	2574	2533	2566
25°	2522	2489	2542
30°	2461	2439	2510
35°	2396	2388	2478
40°	2314	2326	2454
45°	2236	2269	2431
50°	2139	2212	2391
55°	2056	2153	2244
60°	1962	2072	2004
65°	1838	1913	1722
70°	1693	1664	1387
75°	1492	1356	1079
80°	1150	942	721
85°	725	404	275



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.7	3.4
10°-20°	267.7	9.7
20°-30°	403.9	14.7
30°-40°	484.3	17.6
40°-50°	502.6	18.3
50°-60°	453.7	16.5
60°-70°	330.4	12.0
70°-80°	173.3	6.3
80°-90°	37.1	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°	765.4	27.9
0°-40°	1249.7	45.5
0°-60°	2206.0	80.3
0°-90°	2746.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2746.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	991	991	991	991	991	
5°	989	987	982	989	988	94
15°	944	944	945	956	955	266
25°	859	864	873	892	896	396
35°	742	750	772	801	807	463
45°	602	616	649	690	703	464
55°	454	470	517	548	546	406
65°	304	322	357	341	328	301
75°	157	179	173	150	142	165
85°	30	36	26	20	19	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	990.6	990.6	990.6	990.6	990.6
2.5°	992.5	989.9	984.6	991.1	990.6
5°	988.6	986.6	982.0	988.6	987.9
7.5°	982.0	980.7	976.7	983.9	983.2
10°	972.8	970.8	968.1	976.0	976.7
12.5°	960.3	959.7	958.4	966.9	966.2
15°	943.9	943.9	945.2	955.7	955.0
17.5°	927.5	927.5	930.7	942.6	943.3
20°	907.1	908.4	913.0	927.5	928.8
22.5°	884.1	885.4	893.3	911.7	914.9
25°	859.2	863.7	873.0	892.0	895.9
27.5°	836.2	836.9	850.6	871.6	876.8
30°	803.3	812.5	825.0	849.3	854.5
32.5°	771.1	780.3	799.3	825.6	832.9
35°	742.2	749.5	771.8	800.7	807.2
37.5°	706.1	717.9	744.2	774.4	783.7
40°	672.6	683.1	711.4	745.6	757.3
42.5°	637.8	649.6	681.8	718.6	730.5
45°	602.3	615.5	648.9	689.7	702.8
47.5°	563.5	580.0	618.1	659.5	671.3
50°	526.1	543.2	584.0	627.3	639.1
52.5°	492.0	507.1	551.8	591.8	597.1
55°	453.9	469.7	516.9	547.8	546.5
57.5°	415.8	433.5	480.8	499.9	494.6
60°	380.3	396.7	444.0	447.9	436.8
62.5°	340.9	360.0	400.0	394.1	380.3
65°	304.1	322.5	357.3	340.9	328.4
67.5°	266.7	286.4	311.3	287.0	272.6
70°	229.9	253.6	262.8	236.5	224.7
72.5°	192.5	217.5	216.8	191.8	181.9
75°	156.9	179.4	173.4	149.7	142.5
77.5°	119.5	141.8	130.7	113.0	106.4
80°	84.7	105.7	91.3	77.5	72.9
82.5°	57.8	70.3	57.2	45.3	43.3
85°	30.2	36.1	26.3	20.3	19.1
87.5°	11.2	10.5	9.2	8.5	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)