

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: P258670

Luminaire Tested: **14CZ-LD5-29-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258670
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-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2515.0 lumens
Efficiency: N/A
Efficacy: 113.2 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

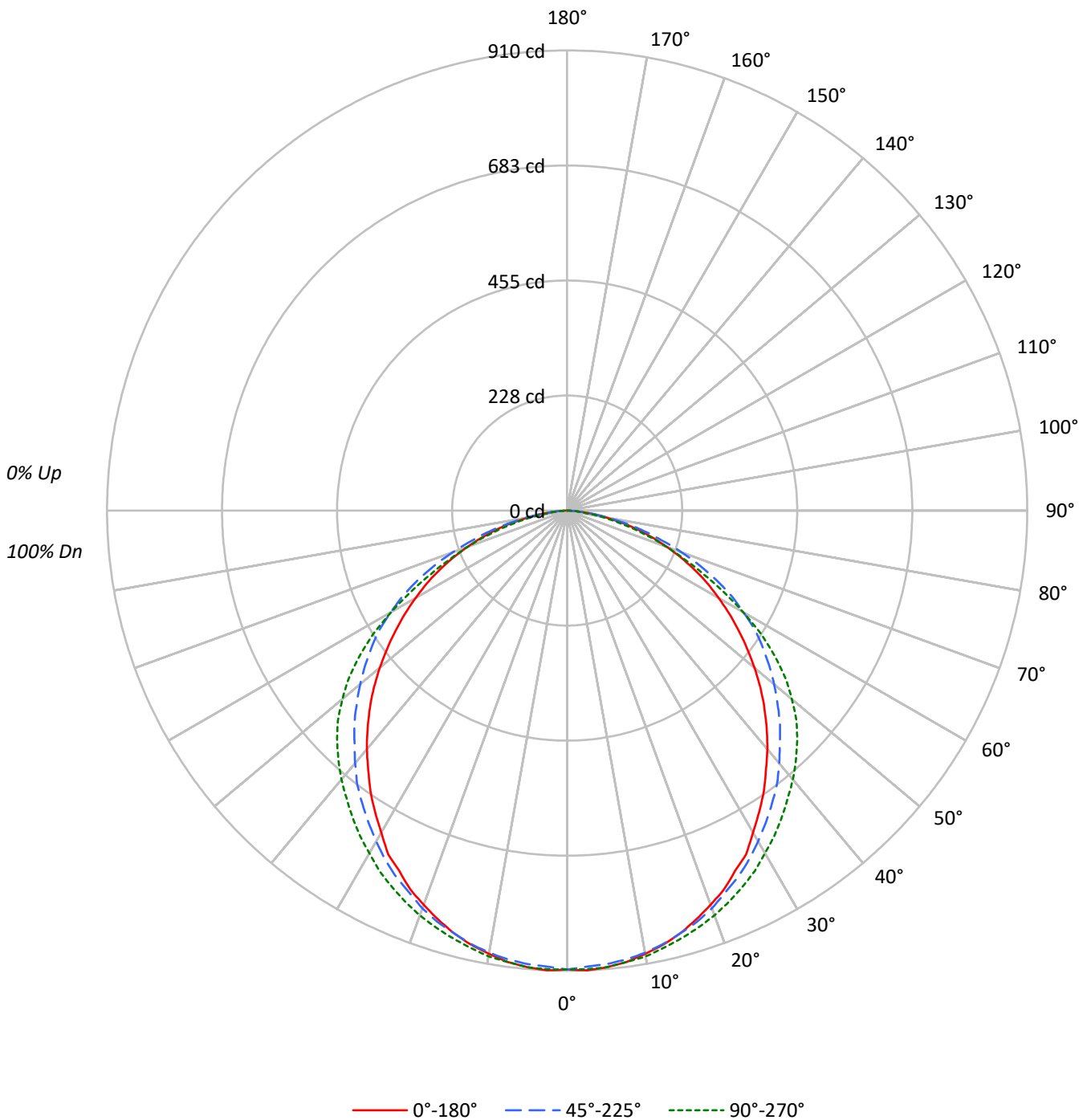
Input Watts (W): 22.227
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2442	2442	2442
5°	2448	2432	2448
10°	2432	2426	2446
15°	2411	2411	2439
20°	2375	2397	2439
25°	2334	2374	2437
30°	2284	2346	2431
35°	2228	2322	2432
40°	2165	2291	2439
45°	2100	2265	2449
50°	2025	2237	2429
55°	1943	2216	2350
60°	1862	2169	2162
65°	1777	2076	1895
70°	1648	1892	1639
75°	1495	1650	1354
80°	1192	1306	1000
85°	843	729	574



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.9	3.4
10°-20°	245.3	9.8
20°-30°	369.9	14.7
30°-40°	443.4	17.6
40°-50°	460.1	18.3
50°-60°	415.0	16.5
60°-70°	302.7	12.0
70°-80°	158.8	6.3
80°-90°	33.9	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°	701.1	27.9
0°-40°	1144.5	45.5
0°-60°	2019.6	80.3
0°-90°	2515.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2515.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	908	908	908	908	908	
5°	906	904	900	906	906	86
15°	865	865	865	875	875	244
25°	786	790	800	817	821	363
35°	678	686	707	733	740	424
45°	552	563	595	631	644	425
55°	414	429	472	503	501	371
65°	279	295	326	314	298	276
75°	144	164	159	138	130	151
85°	27	34	24	20	19	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	907.6	907.6	907.6	907.6	907.6
2.5°	910.1	907.6	902.6	907.6	907.6
5°	906.4	903.9	900.2	906.4	906.4
7.5°	900.2	897.7	895.2	901.4	900.2
10°	890.2	889.0	887.8	895.2	895.2
12.5°	879.1	879.1	877.8	886.5	885.3
15°	865.4	865.4	865.4	875.4	875.4
17.5°	848.1	850.6	853.0	864.2	864.2
20°	829.5	832.0	836.9	850.6	851.8
22.5°	810.9	812.1	817.1	833.2	836.9
25°	786.1	789.8	799.7	817.1	820.8
27.5°	766.2	767.5	778.6	798.5	803.4
30°	735.2	743.9	755.1	777.4	782.4
32.5°	706.7	714.2	731.5	755.1	762.5
35°	678.2	685.7	706.7	732.8	740.2
37.5°	646.0	657.1	681.9	708.0	716.7
40°	616.2	626.1	652.2	684.4	694.3
42.5°	584.0	593.9	622.4	658.4	669.5
45°	551.7	562.9	595.1	631.1	643.5
47.5°	518.3	530.7	564.1	603.8	615.0
50°	483.6	497.2	534.4	575.3	580.3
52.5°	448.8	463.7	503.4	539.3	544.3
55°	414.1	429.0	472.4	503.4	500.9
57.5°	380.6	396.8	441.4	457.5	455.0
60°	345.9	363.3	403.0	410.4	401.7
62.5°	313.7	329.8	367.0	360.8	349.6
65°	279.0	295.1	326.1	313.7	297.6
67.5°	244.3	264.1	283.9	262.9	250.5
70°	209.5	231.9	240.5	219.5	208.3
72.5°	176.1	199.6	197.1	176.1	168.6
75°	143.8	163.7	158.7	137.6	130.2
77.5°	109.1	131.4	120.3	102.9	96.7
80°	76.9	96.7	84.3	69.4	64.5
82.5°	50.8	64.5	52.1	40.9	37.2
85°	27.3	33.5	23.6	19.8	18.6
87.5°	11.2	9.9	8.7	8.7	7.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)