

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: P258615

Luminaire Tested: **14CZ-LD5-29-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258615
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-L82765-W2A1-U-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2776.0 lumens
Efficiency: N/A
Efficacy: 126.5 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

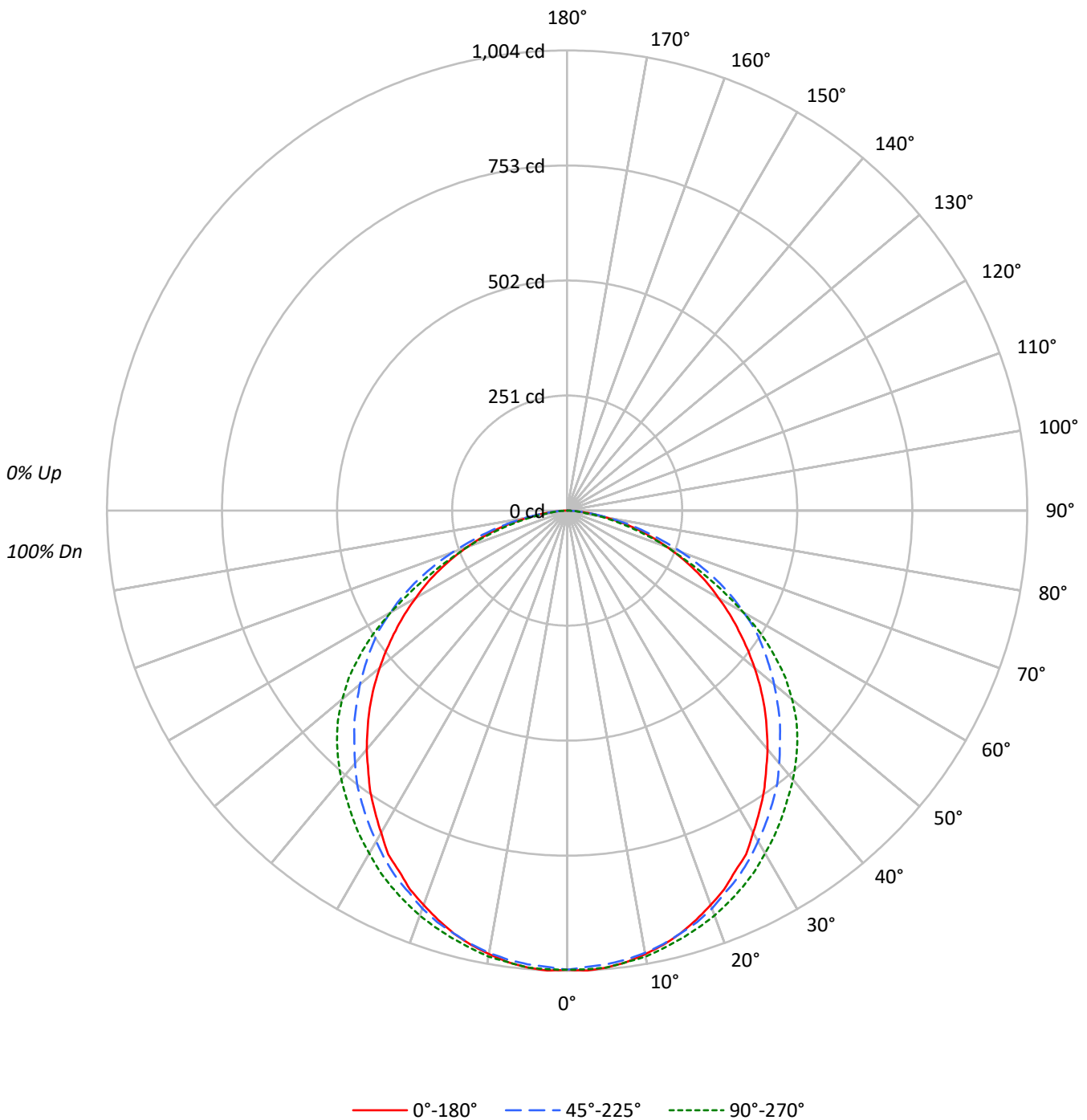
Input Watts (W): 21.948
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2696	2696	2696
5°	2702	2684	2702
10°	2685	2678	2700
15°	2661	2661	2692
20°	2622	2645	2692
25°	2576	2621	2690
30°	2522	2590	2683
35°	2459	2563	2684
40°	2389	2529	2692
45°	2318	2500	2703
50°	2234	2469	2681
55°	2145	2446	2594
60°	2055	2394	2386
65°	1961	2292	2092
70°	1820	2089	1809
75°	1651	1822	1494
80°	1316	1443	1103
85°	929	803	633



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.8	3.4
10°-20°	270.8	9.8
20°-30°	408.3	14.7
30°-40°	489.4	17.6
40°-50°	507.9	18.3
50°-60°	458.1	16.5
60°-70°	334.1	12.0
70°-80°	175.3	6.3
80°-90°	37.4	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°	773.8	27.9
0°-40°	1263.2	45.5
0°-60°	2229.1	80.3
0°-90°	2776.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2776.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1002	1002	1002	1002	1002	
5°	1000	998	994	1000	1000	95
15°	955	955	955	966	966	269
25°	868	872	883	902	906	400
35°	749	757	780	809	817	468
45°	609	621	657	697	710	469
55°	457	474	521	556	553	409
65°	308	326	360	346	328	304
75°	159	181	175	152	144	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°	1001.8	1001.8	1001.8	1001.8	1001.8
2.5°	1004.5	1001.8	996.3	1001.8	1001.8
5°	1000.4	997.7	993.6	1000.4	1000.4
7.5°	993.6	990.8	988.1	994.9	993.6
10°	982.6	981.3	979.9	988.1	988.1
12.5°	970.3	970.3	968.9	978.5	977.1
15°	955.2	955.2	955.2	966.2	966.2
17.5°	936.1	938.8	941.6	953.9	953.9
20°	915.6	918.3	923.8	938.8	940.2
22.5°	895.0	896.4	901.9	919.7	923.8
25°	867.7	871.8	882.7	901.9	906.0
27.5°	845.8	847.1	859.5	881.3	886.8
30°	811.6	821.1	833.4	858.1	863.6
32.5°	780.1	788.3	807.4	833.4	841.7
35°	748.6	756.8	780.1	808.8	817.0
37.5°	713.0	725.3	752.7	781.4	791.0
40°	680.2	691.1	719.9	755.4	766.4
42.5°	644.6	655.5	687.0	726.7	739.0
45°	609.0	621.3	656.9	696.6	710.3
47.5°	572.1	585.7	622.7	666.5	678.8
50°	533.7	548.8	589.8	635.0	640.5
52.5°	495.4	511.8	555.6	595.3	600.8
55°	457.1	473.5	521.4	555.6	552.9
57.5°	420.1	437.9	487.2	505.0	502.3
60°	381.8	401.0	444.8	453.0	443.4
62.5°	346.2	364.0	405.1	398.2	385.9
65°	307.9	325.7	359.9	346.2	328.5
67.5°	269.6	291.5	313.4	290.1	276.4
70°	231.3	255.9	265.5	242.2	229.9
72.5°	194.3	220.3	217.6	194.3	186.1
75°	158.8	180.6	175.2	151.9	143.7
77.5°	120.4	145.1	132.7	113.6	106.7
80°	84.9	106.7	93.1	76.6	71.2
82.5°	56.1	71.2	57.5	45.2	41.1
85°	30.1	37.0	26.0	21.9	20.5
87.5°	12.3	10.9	9.6	9.6	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)