

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: P258839

Luminaire Tested: **14CZ-LD5-29-S-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258839
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35112)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-29-S-UNV-L92765-W2A1-U-4000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2649.0 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

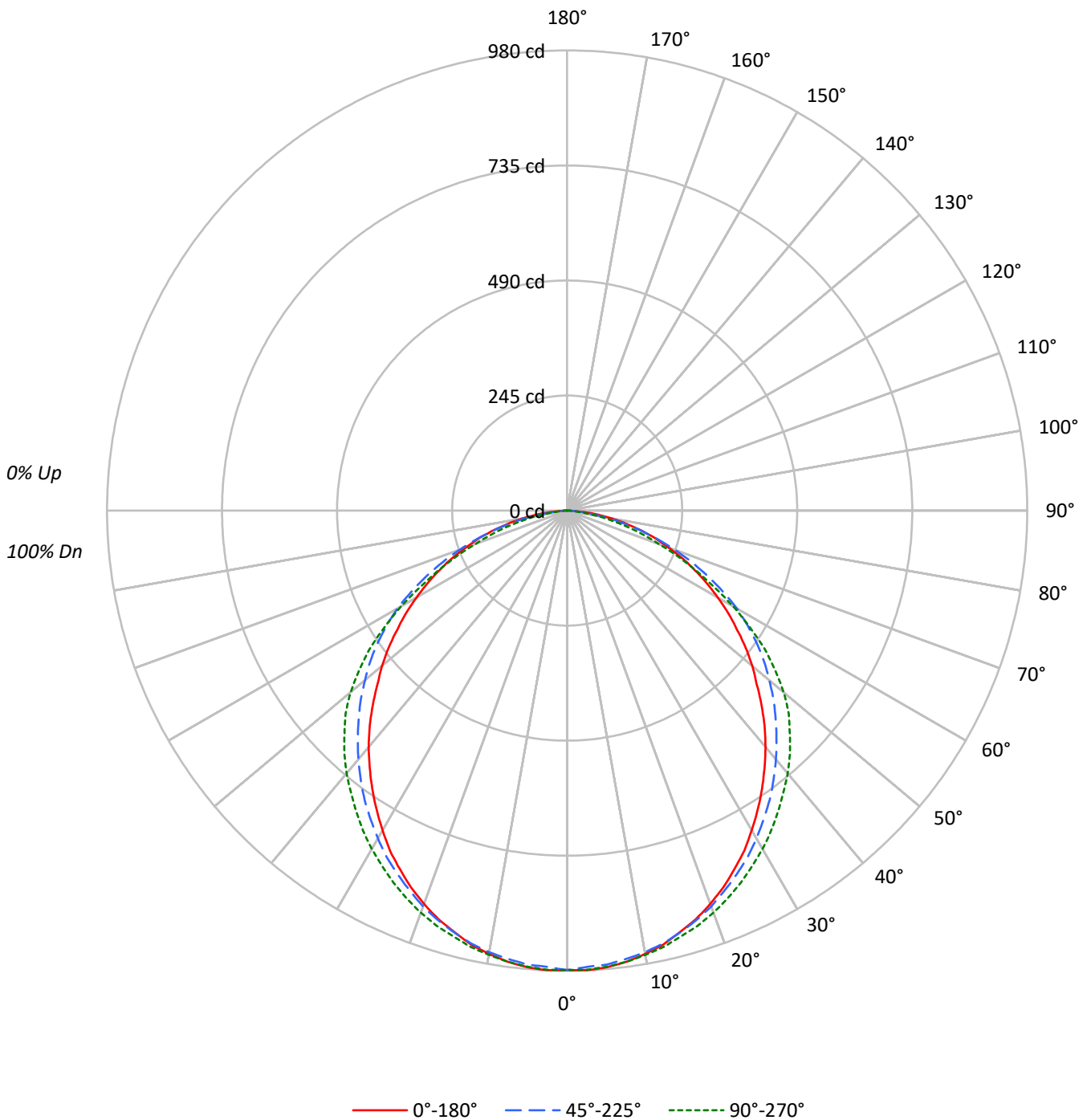
Input Watts (W): 22.413
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2633	2633	2633
5°	2637	2621	2634
10°	2619	2609	2625
15°	2588	2591	2614
20°	2552	2569	2610
25°	2502	2537	2597
30°	2443	2505	2586
35°	2377	2470	2571
40°	2310	2430	2567
45°	2228	2390	2552
50°	2154	2352	2520
55°	2071	2315	2409
60°	1995	2249	2198
65°	1909	2104	1932
70°	1802	1913	1634
75°	1681	1657	1350
80°	1481	1280	987
85°	1167	621	546



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.5	3.5
10°-20°	263.4	9.9
20°-30°	395.3	14.9
30°-40°	471.3	17.8
40°-50°	485.4	18.3
50°-60°	432.6	16.3
60°-70°	311.7	11.8
70°-80°	163.0	6.2
80°-90°	33.7	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°	751.2	28.4
0°-40°	1222.5	46.1
0°-60°	2140.5	80.8
0°-90°	2649.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2649.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	978	978	978	978	978	
5°	976	974	970	976	975	93
15°	929	930	930	940	938	262
25°	843	848	855	871	875	388
35°	724	733	752	777	783	452
45°	586	598	628	663	670	452
55°	442	456	493	516	514	396
65°	300	310	330	315	303	297
75°	162	170	159	138	130	171
85°	38	33	20	18	18	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	978.5	978.5	978.5	978.5	978.5
2.5°	979.7	977.4	972.6	978.5	978.5
5°	976.2	973.8	970.3	976.2	975.0
7.5°	969.1	966.7	963.2	970.3	969.1
10°	958.5	957.3	954.9	962.0	960.8
12.5°	946.7	945.5	944.3	951.4	951.4
15°	929.0	930.1	930.1	939.6	938.4
17.5°	912.4	913.6	914.8	926.6	926.6
20°	891.2	892.4	897.1	910.1	911.3
22.5°	868.8	869.9	875.8	891.2	893.6
25°	842.8	847.5	854.6	871.1	874.7
27.5°	816.8	820.4	832.2	851.1	853.4
30°	786.1	793.2	806.2	827.5	832.2
32.5°	755.4	763.7	779.1	802.7	808.6
35°	723.6	733.0	751.9	776.7	782.6
37.5°	690.5	698.8	722.4	748.4	756.6
40°	657.5	665.7	691.7	721.2	730.7
42.5°	622.1	633.9	659.8	692.9	702.3
45°	585.5	598.5	628.0	663.4	670.5
47.5°	547.7	561.9	596.1	631.5	639.8
50°	514.6	527.6	561.9	596.1	602.0
52.5°	479.2	491.0	528.8	557.1	558.3
55°	441.5	455.6	493.4	515.8	513.5
57.5°	407.2	419.0	455.6	467.4	460.4
60°	370.6	381.3	417.9	419.0	408.4
62.5°	335.2	345.9	374.2	365.9	352.9
65°	299.8	310.4	330.5	315.2	303.4
67.5°	265.6	275.0	286.8	266.8	255.0
70°	229.0	242.0	243.2	219.6	207.7
72.5°	197.1	204.2	201.8	179.4	168.8
75°	161.7	170.0	159.4	138.1	129.8
77.5°	128.7	134.6	120.4	100.3	94.4
80°	95.6	99.2	82.6	67.3	63.7
82.5°	64.9	64.9	47.2	36.6	33.1
85°	37.8	33.1	20.1	17.7	17.7
87.5°	13.0	8.3	8.3	8.3	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)