

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: P258616

Luminaire Tested: **14CZ-LD5-29-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258616
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-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2871.0 lumens
Efficiency: N/A
Efficacy: 129.2 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

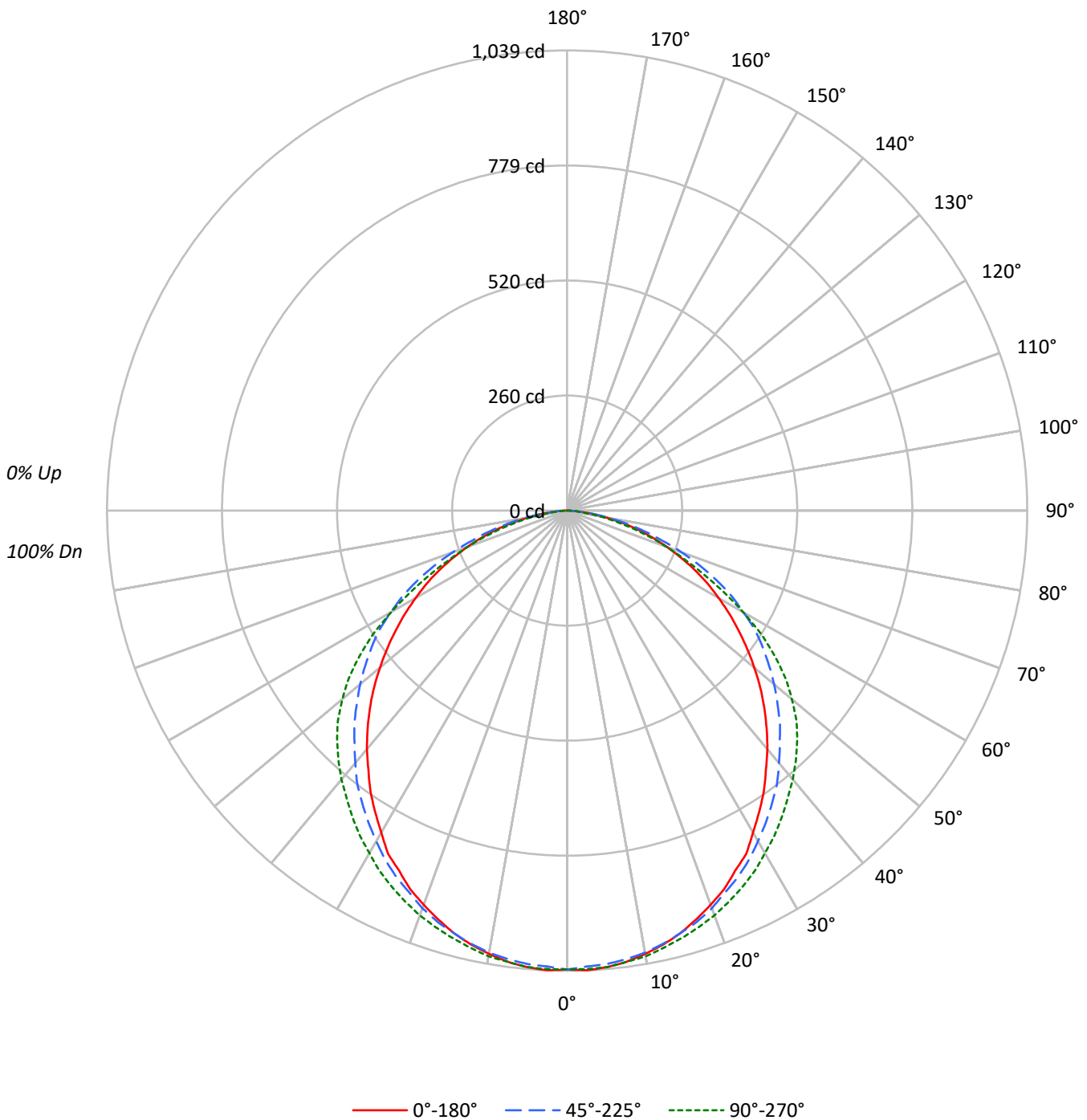
Input Watts (W): 22.227
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2788	2788	2788
5°	2795	2776	2795
10°	2777	2769	2792
15°	2752	2752	2784
20°	2712	2736	2785
25°	2665	2711	2782
30°	2608	2678	2775
35°	2543	2650	2776
40°	2471	2615	2784
45°	2397	2586	2796
50°	2311	2554	2773
55°	2218	2530	2683
60°	2125	2476	2468
65°	2028	2370	2163
70°	1882	2161	1871
75°	1707	1884	1545
80°	1361	1491	1141
85°	960	831	655



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.0	3.4
10°-20°	280.0	9.8
20°-30°	422.2	14.7
30°-40°	506.1	17.6
40°-50°	525.2	18.3
50°-60°	473.7	16.5
60°-70°	345.6	12.0
70°-80°	181.3	6.3
80°-90°	38.7	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°	800.3	27.9
0°-40°	1306.5	45.5
0°-60°	2305.4	80.3
0°-90°	2871.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2871.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1036	1036	1036	1036	1036	
5°	1035	1032	1028	1035	1035	98
15°	988	988	988	999	999	278
25°	897	902	913	933	937	414
35°	774	783	807	836	845	484
45°	630	643	679	720	735	485
55°	473	490	539	575	572	423
65°	318	337	372	358	340	315
75°	164	187	181	157	149	172
85°	31	38	27	23	21	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1036.1	1036.1	1036.1	1036.1	1036.1
2.5°	1038.9	1036.1	1030.4	1036.1	1036.1
5°	1034.6	1031.8	1027.6	1034.6	1034.6
7.5°	1027.6	1024.7	1021.9	1029.0	1027.6
10°	1016.2	1014.8	1013.4	1021.9	1021.9
12.5°	1003.5	1003.5	1002.1	1012.0	1010.6
15°	987.9	987.9	987.9	999.3	999.3
17.5°	968.1	971.0	973.8	986.5	986.5
20°	946.9	949.7	955.4	971.0	972.4
22.5°	925.7	927.1	932.7	951.1	955.4
25°	897.4	901.6	912.9	932.7	937.0
27.5°	874.7	876.1	888.9	911.5	917.2
30°	839.3	849.2	862.0	887.4	893.1
32.5°	806.8	815.3	835.1	862.0	870.5
35°	774.2	782.7	806.8	836.5	845.0
37.5°	737.4	750.2	778.5	808.2	818.1
40°	703.4	714.8	744.5	781.3	792.6
42.5°	666.6	678.0	710.5	751.6	764.3
45°	629.8	642.6	679.4	720.4	734.6
47.5°	591.6	605.8	644.0	689.3	702.0
50°	552.0	567.6	610.0	656.7	662.4
52.5°	512.4	529.4	574.6	615.7	621.4
55°	472.7	489.7	539.3	574.6	571.8
57.5°	434.5	452.9	503.9	522.3	519.4
60°	394.9	414.7	460.0	468.5	458.6
62.5°	358.1	376.5	419.0	411.9	399.1
65°	318.5	336.9	372.2	358.1	339.7
67.5°	278.8	301.5	324.1	300.1	285.9
70°	239.2	264.7	274.6	250.5	237.8
72.5°	201.0	227.9	225.0	201.0	192.5
75°	164.2	186.8	181.2	157.1	148.6
77.5°	124.6	150.0	137.3	117.5	110.4
80°	87.8	110.4	96.2	79.3	73.6
82.5°	58.0	73.6	59.4	46.7	42.5
85°	31.1	38.2	26.9	22.6	21.2
87.5°	12.7	11.3	9.9	9.9	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)