

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: P258844

Luminaire Tested: **14CZ-LD5-29-S-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258844
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-6500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2846.0 lumens
Efficiency: N/A
Efficacy: 122.9 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

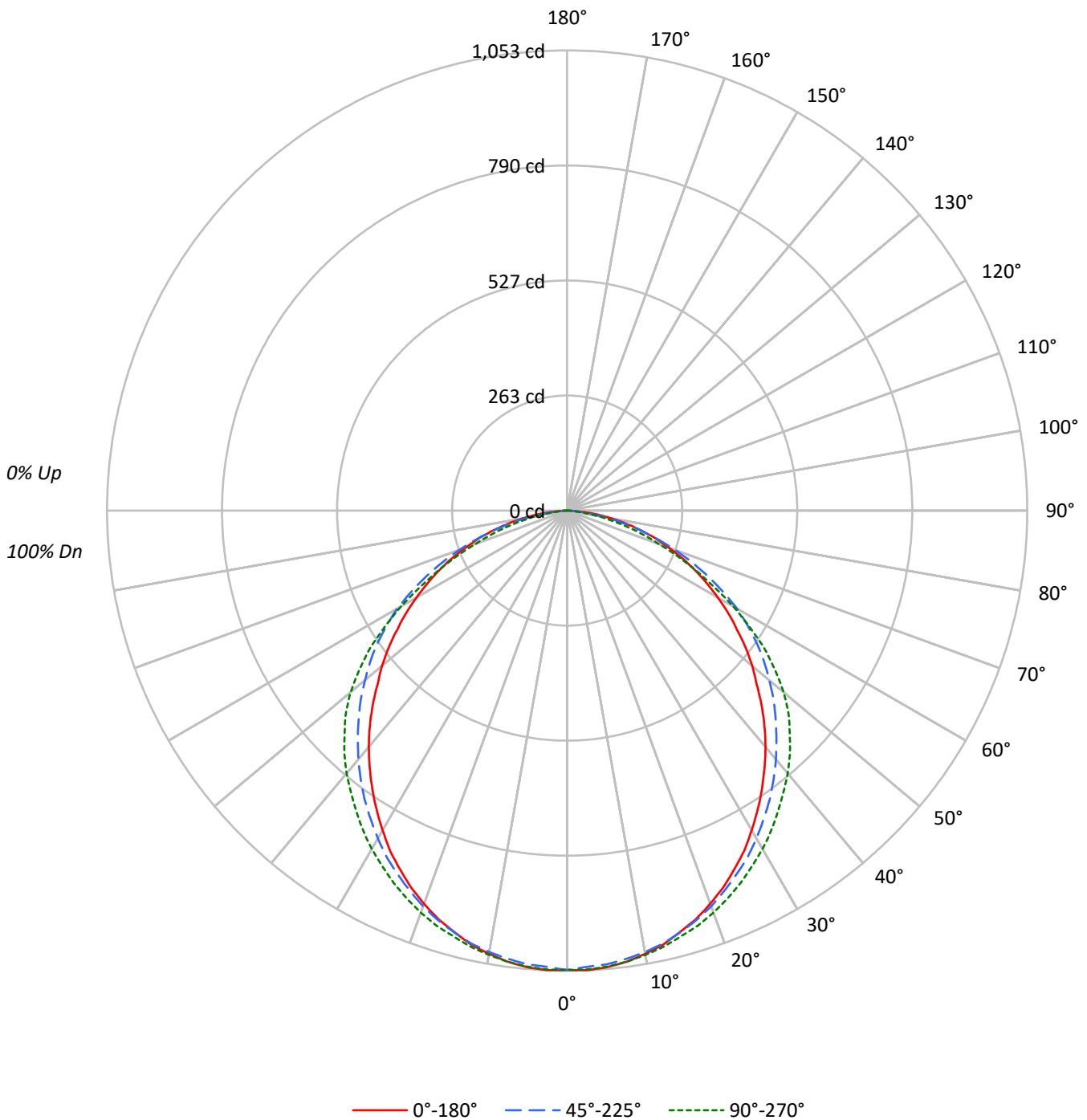
Input Watts (W): 23.157
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2829	2829	2829
5°	2833	2816	2830
10°	2814	2803	2821
15°	2781	2784	2809
20°	2742	2760	2804
25°	2689	2726	2790
30°	2624	2692	2778
35°	2554	2654	2762
40°	2481	2610	2758
45°	2394	2568	2741
50°	2315	2527	2708
55°	2225	2487	2588
60°	2143	2416	2362
65°	2051	2261	2075
70°	1936	2055	1756
75°	1806	1780	1450
80°	1592	1376	1062
85°	1254	667	587



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.3	3.5
10°-20°	283.0	9.9
20°-30°	424.7	14.9
30°-40°	506.3	17.8
40°-50°	521.5	18.3
50°-60°	464.8	16.3
60°-70°	334.9	11.8
70°-80°	175.2	6.2
80°-90°	36.2	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°	807.1	28.4
0°-40°	1313.4	46.1
0°-60°	2299.7	80.8
0°-90°	2846.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2846.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1051	1051	1051	1051	1051	
5°	1049	1046	1042	1049	1048	99
15°	998	999	999	1010	1008	282
25°	906	910	918	936	940	417
35°	777	788	808	834	841	486
45°	629	643	675	713	720	485
55°	474	490	530	554	552	425
65°	322	334	355	339	326	319
75°	174	183	171	148	140	184
85°	41	36	22	19	19	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1051.3	1051.3	1051.3	1051.3	1051.3
2.5°	1052.6	1050.0	1045.0	1051.3	1051.3
5°	1048.8	1046.2	1042.4	1048.8	1047.5
7.5°	1041.2	1038.6	1034.8	1042.4	1041.2
10°	1029.8	1028.5	1025.9	1033.6	1032.3
12.5°	1017.1	1015.8	1014.5	1022.1	1022.1
15°	998.1	999.3	999.3	1009.5	1008.2
17.5°	980.3	981.6	982.8	995.5	995.5
20°	957.5	958.7	963.8	977.8	979.0
22.5°	933.4	934.6	941.0	957.5	960.0
25°	905.5	910.5	918.2	935.9	939.7
27.5°	877.6	881.4	894.1	914.4	916.9
30°	844.6	852.2	866.2	889.0	894.1
32.5°	811.6	820.5	837.0	862.4	868.7
35°	777.4	787.5	807.8	834.5	840.8
37.5°	741.9	750.8	776.1	804.0	812.9
40°	706.4	715.2	743.1	774.9	785.0
42.5°	668.3	681.0	708.9	744.4	754.6
45°	629.0	643.0	674.7	712.7	720.3
47.5°	588.4	603.6	640.4	678.5	687.3
50°	552.9	566.9	603.6	640.4	646.8
52.5°	514.9	527.6	568.1	598.6	599.8
55°	474.3	489.5	530.1	554.2	551.7
57.5°	437.5	450.2	489.5	502.2	494.6
60°	398.2	409.6	448.9	450.2	438.8
62.5°	360.2	371.6	402.0	393.1	379.2
65°	322.1	333.5	355.1	338.6	325.9
67.5°	285.3	295.5	308.2	286.6	273.9
70°	246.0	260.0	261.2	235.9	223.2
72.5°	211.8	219.4	216.9	192.8	181.3
75°	173.7	182.6	171.2	148.4	139.5
77.5°	138.2	144.6	129.4	107.8	101.5
80°	102.7	106.5	88.8	72.3	68.5
82.5°	69.7	69.7	50.7	39.3	35.5
85°	40.6	35.5	21.6	19.0	19.0
87.5°	13.9	8.9	8.9	8.9	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)