

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: P275473

Luminaire Tested: **14CZ2-29-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275473
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-29-UNV-L82765-W2A1-U-5700K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3022.0 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

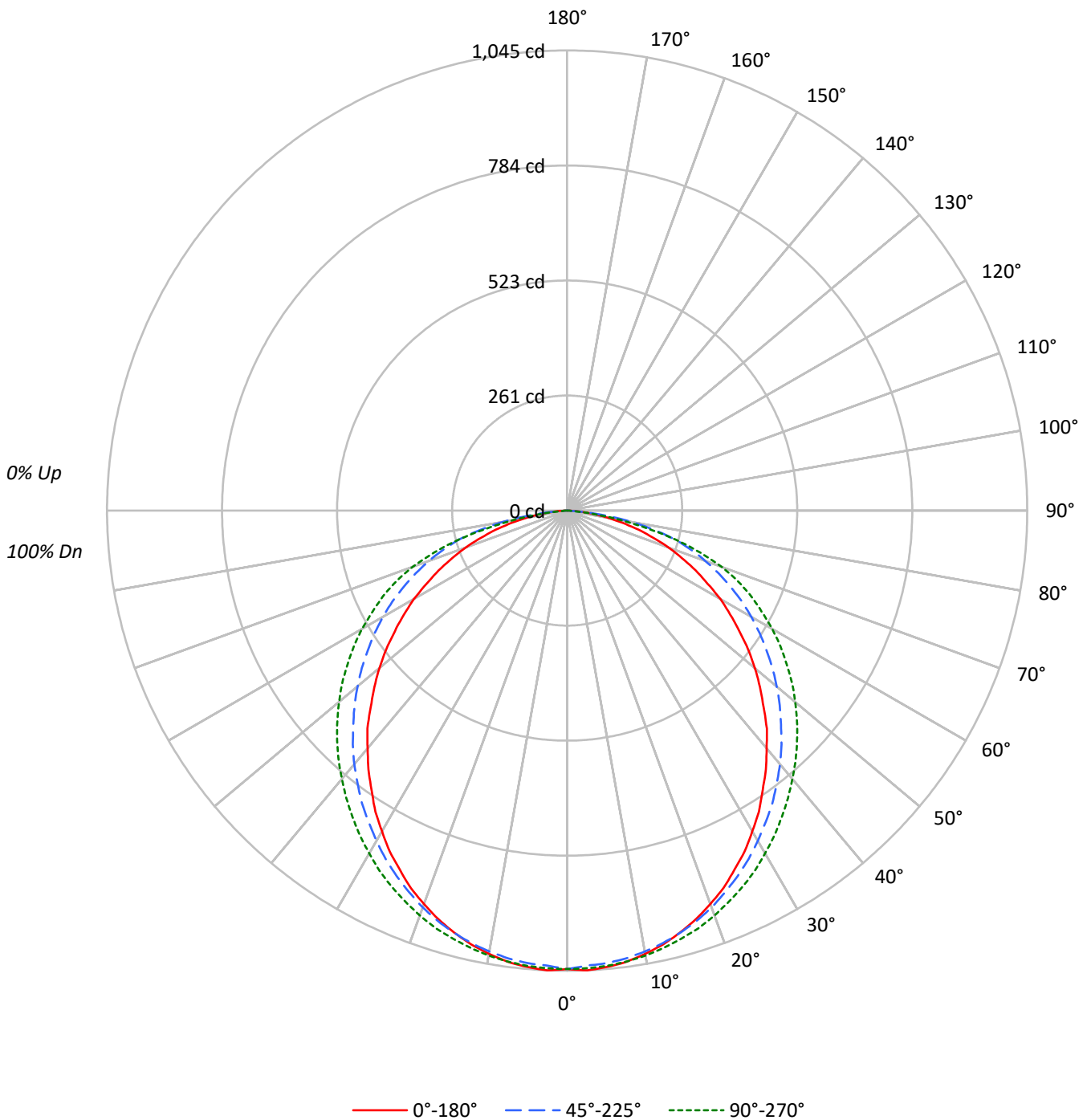
Input Watts (W): 22.785
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2802	2802	2802
5°	2810	2787	2803
10°	2793	2778	2804
15°	2763	2765	2803
20°	2723	2746	2802
25°	2671	2719	2799
30°	2613	2691	2793
35°	2543	2667	2791
40°	2476	2642	2796
45°	2400	2613	2810
50°	2330	2601	2830
55°	2242	2593	2855
60°	2161	2597	2894
65°	2051	2604	2939
70°	1924	2625	2937
75°	1745	2648	2655
80°	1430	2287	1891
85°	1062	1081	438



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.5	3.3
10°-20°	281.4	9.3
20°-30°	423.9	14.0
30°-40°	508.7	16.8
40°-50°	530.2	17.5
50°-60°	490.9	16.2
60°-70°	396.6	13.1
70°-80°	241.8	8.0
80°-90°	49.9	1.7
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°	803.9	26.6
0°-40°	1312.6	43.4
0°-60°	2333.7	77.2
0°-90°	3022.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3022.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1041	1041	1041	1041	1041	
5°	1040	1038	1032	1039	1038	99
15°	992	993	993	1006	1006	280
25°	900	905	916	939	943	415
35°	774	786	812	842	850	485
45°	631	650	687	725	738	488
55°	478	503	553	596	608	428
65°	322	354	409	450	462	318
75°	168	205	255	259	255	176
85°	34	51	35	20	14	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1041.1	1041.1	1041.1	1041.1	1041.1
2.5°	1045.1	1041.8	1034.4	1041.8	1040.4
5°	1040.4	1037.7	1031.7	1039.1	1037.7
7.5°	1033.7	1031.0	1025.6	1034.4	1033.0
10°	1022.2	1020.9	1016.8	1026.9	1026.3
12.5°	1008.7	1008.1	1006.0	1017.5	1016.8
15°	991.9	992.6	992.6	1006.0	1006.0
17.5°	973.0	974.4	977.1	991.9	993.9
20°	950.8	953.5	958.9	975.7	978.4
22.5°	927.9	929.9	938.0	958.2	960.9
25°	899.6	905.0	915.8	938.7	942.7
27.5°	872.6	877.3	892.2	915.8	922.5
30°	841.0	848.4	865.9	891.5	898.9
32.5°	810.6	818.7	838.9	868.6	875.3
35°	774.2	786.4	812.0	841.6	849.7
37.5°	741.2	752.7	781.7	814.0	823.4
40°	704.8	719.0	752.0	786.4	795.8
42.5°	671.1	684.6	720.3	755.4	768.2
45°	630.7	649.6	686.6	725.1	738.5
47.5°	593.7	612.5	655.0	696.1	708.2
50°	556.6	576.8	621.3	663.7	675.9
52.5°	518.2	539.7	587.6	630.0	644.2
55°	477.8	502.7	552.6	595.7	608.5
57.5°	439.3	465.0	518.2	562.0	574.8
60°	401.6	427.9	482.5	524.3	537.7
62.5°	359.8	390.8	447.4	488.5	498.6
65°	322.1	353.8	409.0	450.1	461.6
67.5°	282.3	316.7	372.0	409.7	420.5
70°	244.6	280.3	333.6	368.6	373.3
72.5°	204.2	240.6	294.5	316.7	316.7
75°	167.8	204.8	254.7	258.8	255.4
77.5°	128.0	169.1	201.5	193.4	185.3
80°	92.3	132.7	147.6	132.7	122.0
82.5°	62.0	96.4	88.9	70.8	62.7
85°	34.4	51.2	35.0	19.5	14.2
87.5°	12.8	11.5	3.4	3.4	3.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)