

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: P275471

Luminaire Tested: **14CZ2-29-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275471
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-5000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2985.0 lumens
Efficiency: N/A
Efficacy: 131.5 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

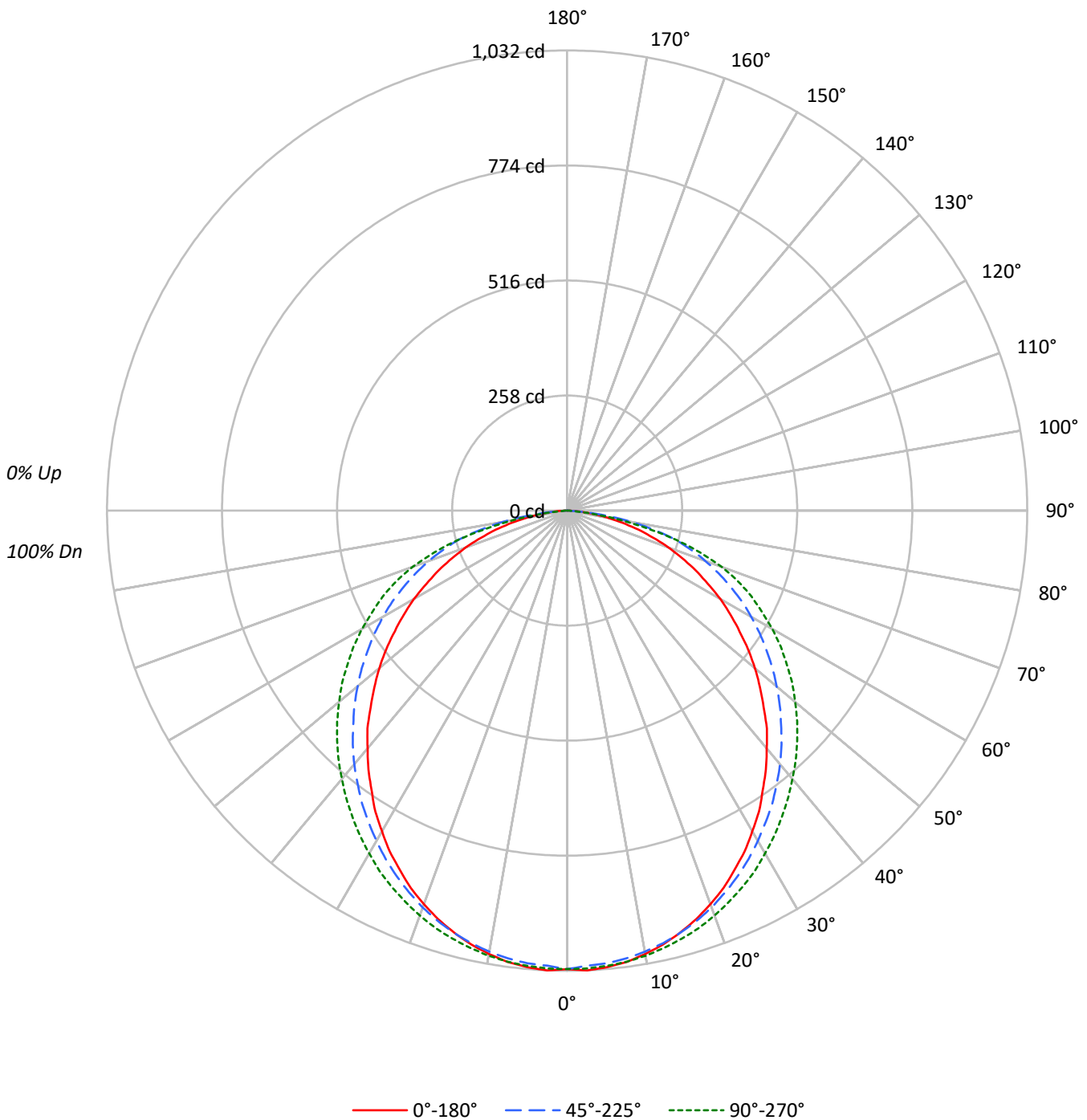
Input Watts (W): 22.692
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32					32			
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2767	2767	2767
5°	2776	2753	2769
10°	2759	2745	2770
15°	2730	2731	2768
20°	2690	2712	2767
25°	2638	2686	2765
30°	2581	2658	2759
35°	2512	2635	2757
40°	2446	2609	2761
45°	2371	2581	2776
50°	2302	2569	2795
55°	2214	2561	2820
60°	2135	2565	2858
65°	2026	2572	2903
70°	1901	2592	2901
75°	1723	2616	2623
80°	1413	2259	1867
85°	1047	1068	432



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.3	3.3
10°-20°	278.0	9.3
20°-30°	418.7	14.0
30°-40°	502.5	16.8
40°-50°	523.7	17.5
50°-60°	484.8	16.2
60°-70°	391.7	13.1
70°-80°	238.9	8.0
80°-90°	49.3	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°	794.0	26.6
0°-40°	1296.5	43.4
0°-60°	2305.1	77.2
0°-90°	2985.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2985.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1028	1028	1028	1028	1028	
5°	1028	1025	1019	1026	1025	98
15°	980	980	980	994	994	276
25°	889	894	904	927	931	410
35°	765	777	802	831	839	479
45°	623	642	678	716	730	482
55°	472	496	546	588	601	423
65°	318	349	404	445	456	315
75°	166	202	252	256	252	174
85°	34	51	35	19	14	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1028.3	1028.3	1028.3	1028.3	1028.3
2.5°	1032.3	1029.0	1021.7	1029.0	1027.7
5°	1027.7	1025.0	1019.0	1026.3	1025.0
7.5°	1021.0	1018.4	1013.0	1021.7	1020.4
10°	1009.7	1008.4	1004.4	1014.4	1013.7
12.5°	996.4	995.7	993.7	1005.0	1004.4
15°	979.8	980.4	980.4	993.7	993.7
17.5°	961.1	962.4	965.1	979.8	981.8
20°	939.2	941.8	947.1	963.8	966.4
22.5°	916.5	918.5	926.5	946.5	949.1
25°	888.6	893.9	904.5	927.2	931.2
27.5°	861.9	866.6	881.2	904.5	911.2
30°	830.7	838.0	855.3	880.6	887.9
32.5°	800.7	808.7	828.7	858.0	864.6
35°	764.8	776.7	802.0	831.3	839.3
37.5°	732.2	743.5	772.1	804.0	813.4
40°	696.2	710.2	742.8	776.7	786.1
42.5°	662.9	676.2	711.5	746.1	758.8
45°	623.0	641.6	678.2	716.2	729.5
47.5°	586.4	605.0	647.0	687.6	699.5
50°	549.8	569.7	613.7	655.6	667.6
52.5°	511.8	533.1	580.4	622.3	636.3
55°	471.9	496.5	545.8	588.4	601.0
57.5°	434.0	459.3	511.8	555.1	567.8
60°	396.7	422.7	476.6	517.8	531.1
62.5°	355.4	386.0	442.0	482.6	492.5
65°	318.2	349.4	404.0	444.6	455.9
67.5°	278.9	312.8	367.4	404.7	415.3
70°	241.6	276.9	329.5	364.1	368.7
72.5°	201.7	237.6	290.9	312.8	312.8
75°	165.7	202.3	251.6	255.6	252.3
77.5°	126.5	167.1	199.0	191.0	183.0
80°	91.2	131.1	145.8	131.1	120.5
82.5°	61.2	95.2	87.9	69.9	61.9
85°	33.9	50.6	34.6	19.3	14.0
87.5°	12.6	11.3	3.3	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)