

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: P275538

Luminaire Tested: **14CZ2-39-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275538
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: 14CZ2-39-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3014.0 lumens
Efficiency: N/A
Efficacy: 97.6 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

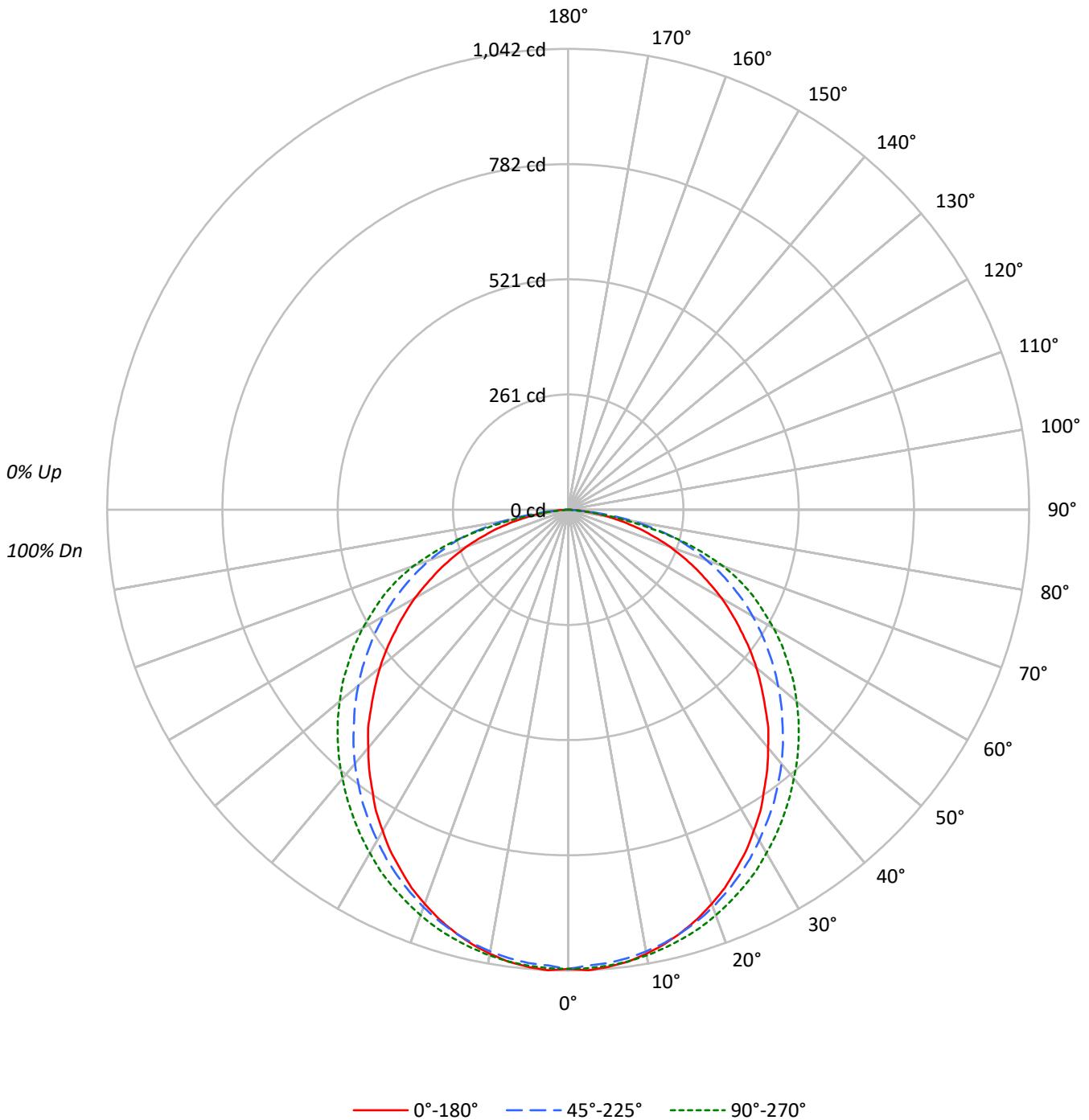
Input Watts (W): 30.876
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2794	2794	2794
5°	2803	2779	2796
10°	2786	2771	2797
15°	2756	2758	2795
20°	2716	2739	2794
25°	2664	2712	2792
30°	2606	2683	2786
35°	2537	2660	2784
40°	2470	2635	2788
45°	2394	2606	2803
50°	2324	2594	2822
55°	2236	2586	2847
60°	2155	2590	2886
65°	2045	2597	2932
70°	1920	2618	2929
75°	1739	2641	2648
80°	1427	2281	1884
85°	1059	1078	435



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.3	3.3
10°-20°	280.7	9.3
20°-30°	422.8	14.0
30°-40°	507.4	16.8
40°-50°	528.8	17.5
50°-60°	489.6	16.2
60°-70°	395.5	13.1
70°-80°	241.2	8.0
80°-90°	49.8	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°	801.7	26.6
0°-40°	1309.1	43.4
0°-60°	2327.5	77.2
0°-90°	3014.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3014.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1038	1038	1038	1038	1038	
5°	1038	1035	1029	1036	1035	98
15°	989	990	990	1003	1003	279
25°	897	903	913	936	940	414
35°	772	784	810	839	848	484
45°	629	648	685	723	737	486
55°	476	501	551	594	607	427
65°	321	353	408	449	460	318
75°	167	204	254	258	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°	1038.3	1038.3	1038.3	1038.3	1038.3
2.5°	1042.4	1039.0	1031.6	1039.0	1037.7
5°	1037.7	1035.0	1028.9	1036.3	1035.0
7.5°	1030.9	1028.3	1022.9	1031.6	1030.3
10°	1019.5	1018.2	1014.1	1024.2	1023.5
12.5°	1006.1	1005.4	1003.4	1014.8	1014.1
15°	989.3	989.9	989.9	1003.4	1003.4
17.5°	970.5	971.8	974.5	989.3	991.3
20°	948.3	951.0	956.3	973.1	975.8
22.5°	925.4	927.4	935.5	955.7	958.4
25°	897.2	902.6	913.3	936.2	940.2
27.5°	870.3	875.0	889.8	913.3	920.1
30°	838.7	846.1	863.6	889.1	896.5
32.5°	808.5	816.6	836.7	866.3	873.0
35°	772.2	784.3	809.8	839.4	847.5
37.5°	739.3	750.7	779.6	811.8	821.3
40°	703.0	717.1	750.0	784.3	793.7
42.5°	669.4	682.8	718.4	753.4	766.1
45°	629.0	647.9	684.8	723.1	736.6
47.5°	592.1	610.9	653.2	694.2	706.3
50°	555.1	575.3	619.6	662.0	674.1
52.5°	516.8	538.3	586.0	628.4	642.5
55°	476.5	501.4	551.1	594.1	606.9
57.5°	438.2	463.7	516.8	560.5	573.3
60°	400.5	426.8	481.2	522.9	536.3
62.5°	358.9	389.8	446.2	487.2	497.3
65°	321.2	352.8	407.9	448.9	460.4
67.5°	281.6	315.9	371.0	408.6	419.4
70°	244.0	279.6	332.7	367.6	372.3
72.5°	203.6	239.9	293.7	315.9	315.9
75°	167.3	204.3	254.0	258.1	254.7
77.5°	127.7	168.7	200.9	192.9	184.8
80°	92.1	132.4	147.2	132.4	121.6
82.5°	61.8	96.1	88.7	70.6	62.5
85°	34.3	51.1	34.9	19.5	14.1
87.5°	12.8	11.4	3.4	3.4	3.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)