

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: P275694

Luminaire Tested: **14CZ2-29-S-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275694
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-29-S-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2750.0 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

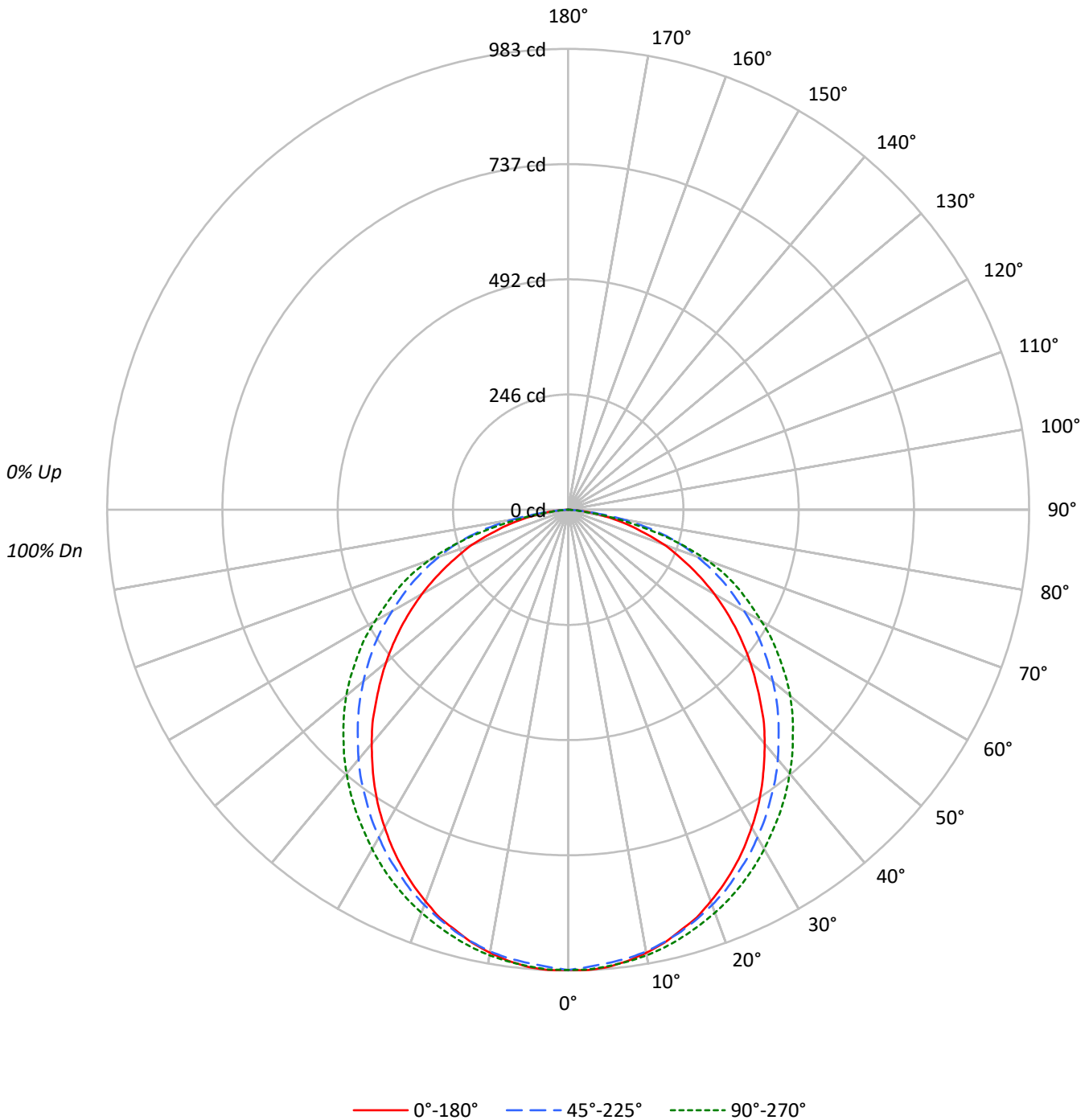
Input Watts (W): 22.785
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84					84			
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70					70			
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58					58			
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50					50			
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43					43			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38					38			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27					27			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2642	2642	2642
5°	2645	2622	2641
10°	2623	2616	2638
15°	2587	2595	2629
20°	2546	2569	2620
25°	2494	2538	2611
30°	2432	2508	2597
35°	2365	2472	2589
40°	2289	2443	2582
45°	2205	2413	2579
50°	2123	2386	2586
55°	2034	2367	2578
60°	1938	2334	2561
65°	1823	2327	2561
70°	1717	2306	2489
75°	1489	2254	2126
80°	1204	1818	1416
85°	800	633	420



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.7	3.4
10°-20°	263.8	9.6
20°-30°	395.7	14.4
30°-40°	472.0	17.2
40°-50°	488.0	17.7
50°-60°	445.5	16.2
60°-70°	350.6	12.7
70°-80°	204.1	7.4
80°-90°	37.6	1.4
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°	752.2	27.4
0°-40°	1224.2	44.5
0°-60°	2157.7	78.5
0°-90°	2750.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2750.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	982	982	982	982	982	
5°	979	976	971	979	978	93
15°	928	930	931	944	944	262
25°	840	844	855	875	879	387
35°	720	730	753	781	788	450
45°	580	599	634	670	678	448
55°	434	457	504	541	550	388
65°	286	316	365	394	402	284
75°	143	177	217	213	204	152
85°	26	37	20	16	14	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	981.7	981.7	981.7	981.7	981.7
2.5°	983.1	980.3	976.3	983.1	981.7
5°	979.0	976.3	970.8	979.0	977.6
7.5°	970.8	968.1	965.3	973.5	972.2
10°	959.9	958.5	957.2	966.7	965.3
12.5°	946.3	946.3	944.9	955.8	955.8
15°	928.5	929.9	931.3	943.5	943.5
17.5°	912.2	910.8	914.9	928.5	929.9
20°	889.0	891.7	897.2	913.5	914.9
22.5°	865.8	868.5	878.1	894.4	898.5
25°	839.9	844.0	854.9	875.4	879.4
27.5°	812.6	818.1	833.1	854.9	859.0
30°	782.6	790.8	807.2	831.7	835.8
32.5°	752.6	760.8	781.3	805.8	811.3
35°	719.9	729.5	752.6	781.3	788.1
37.5°	685.8	698.1	725.4	754.0	762.2
40°	651.7	665.4	695.4	725.4	734.9
42.5°	617.7	631.3	664.0	698.1	707.6
45°	579.5	598.6	634.0	669.5	677.6
47.5°	542.7	563.1	602.7	638.1	649.0
50°	507.2	527.7	569.9	606.7	617.7
52.5°	470.4	492.2	537.2	575.4	584.9
55°	433.6	456.8	504.5	541.3	549.5
57.5°	396.8	421.3	470.4	505.9	515.4
60°	360.0	385.9	433.6	469.0	475.9
62.5°	323.1	350.4	399.5	430.9	437.7
65°	286.3	316.3	365.4	394.0	402.2
67.5°	250.9	280.9	328.6	355.9	362.7
70°	218.2	245.4	293.1	313.6	316.3
72.5°	177.3	211.3	257.7	268.6	261.8
75°	143.2	177.3	216.8	212.7	204.5
77.5°	109.1	143.2	169.1	155.4	144.5
80°	77.7	111.8	117.3	96.8	91.4
82.5°	50.4	77.7	65.4	50.4	40.9
85°	25.9	36.8	20.5	16.4	13.6
87.5°	8.2	5.5	2.7	2.7	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)