

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: P275833

Luminaire Tested: **14CZ2-44-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275833
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-44-RDP-UNV-L82765-W2A1-U-4500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2803.0 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

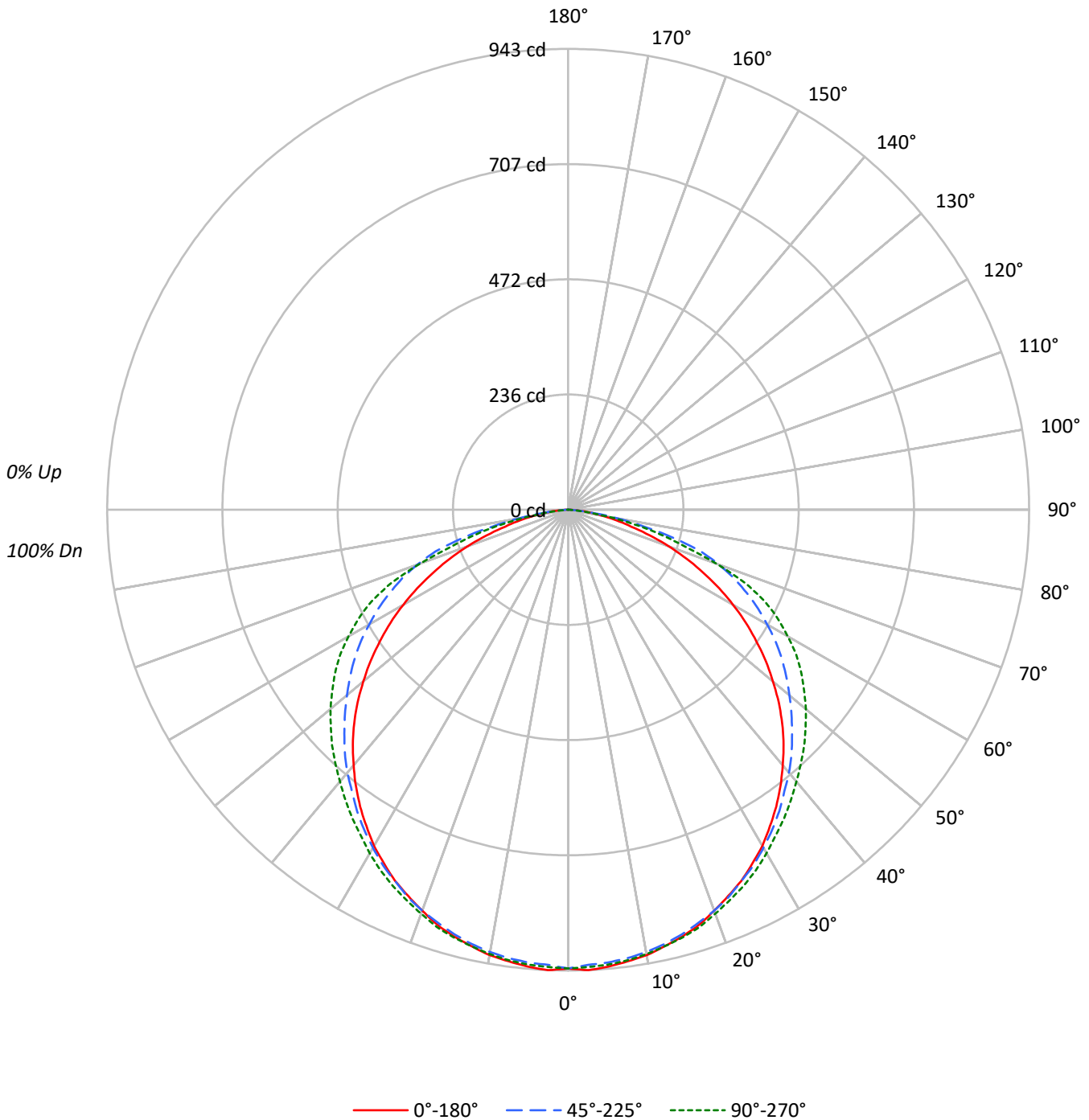
Input Watts (W): 36.27
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	91	88	90	88	86	84					84			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	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	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2526	2526	2526
5°	2536	2512	2524
10°	2529	2511	2523
15°	2518	2506	2524
20°	2500	2500	2519
25°	2488	2488	2521
30°	2468	2482	2523
35°	2437	2473	2530
40°	2399	2468	2552
45°	2357	2465	2598
50°	2290	2474	2657
55°	2207	2505	2731
60°	2096	2532	2791
65°	1937	2564	2828
70°	1721	2583	2531
75°	1388	2321	2025
80°	1085	1627	1322
85°	744	472	337



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.9	3.2
10°-20°	254.9	9.1
20°-30°	388.2	13.8
30°-40°	472.8	16.9
40°-50°	501.6	17.9
50°-60°	473.4	16.9
60°-70°	382.3	13.6
70°-80°	207.4	7.4
80°-90°	33.6	1.2
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°	732.0	26.1
0°-40°	1204.8	43.0
0°-60°	2179.8	77.8
0°-90°	2803.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2803.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	939	939	939	939	939	
5°	939	937	930	937	934	89
15°	904	902	899	906	906	255
25°	838	836	838	847	849	386
35°	742	746	753	768	770	464
45°	619	628	648	672	683	477
55°	470	490	534	569	582	420
65°	304	341	403	436	444	301
75°	134	195	223	201	195	146
85°	24	26	15	13	11	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	938.8	938.8	938.8	938.8	938.8
2.5°	943.2	938.8	932.2	938.8	936.6
5°	938.8	936.6	930.0	936.6	934.4
7.5°	932.2	932.2	925.7	930.0	930.0
10°	925.7	923.5	919.1	925.7	923.5
12.5°	914.7	912.5	910.3	916.9	914.7
15°	903.8	901.6	899.4	906.0	906.0
17.5°	890.7	888.5	886.3	895.0	895.0
20°	873.1	873.1	873.1	881.9	879.7
22.5°	855.6	855.6	857.8	866.6	864.4
25°	838.1	835.9	838.1	846.9	849.1
27.5°	816.2	818.4	820.6	829.4	831.6
30°	794.4	796.6	798.7	809.7	811.9
32.5°	768.1	772.5	776.9	790.0	790.0
35°	741.8	746.2	752.8	768.1	770.3
37.5°	713.4	717.8	726.5	744.0	748.4
40°	682.8	689.3	702.5	720.0	726.5
42.5°	652.1	660.9	676.2	695.9	704.6
45°	619.3	628.1	647.7	671.8	682.8
47.5°	584.3	595.2	619.3	649.9	658.7
50°	547.1	562.4	590.9	623.7	634.6
52.5°	509.9	527.4	562.4	597.4	608.4
55°	470.5	490.2	534.0	569.0	582.1
57.5°	431.1	453.0	503.3	540.5	553.6
60°	389.5	415.8	470.5	507.7	518.6
62.5°	347.9	378.6	437.7	474.9	483.6
65°	304.2	341.4	402.7	435.5	444.2
67.5°	262.6	306.4	367.6	391.7	391.7
70°	218.8	267.0	328.3	334.8	321.7
72.5°	175.1	229.8	284.5	260.4	249.5
75°	133.5	194.8	223.2	201.3	194.8
77.5°	100.7	157.6	157.6	144.4	140.1
80°	70.0	120.4	105.0	91.9	85.3
82.5°	46.0	67.8	54.7	43.8	37.2
85°	24.1	26.3	15.3	13.1	10.9
87.5°	8.8	4.4	2.2	4.4	2.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)