

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: P275836

Luminaire Tested: **14CZ2-44-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275836
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-5700K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2877.0 lumens
Efficiency: N/A
Efficacy: 78.5 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

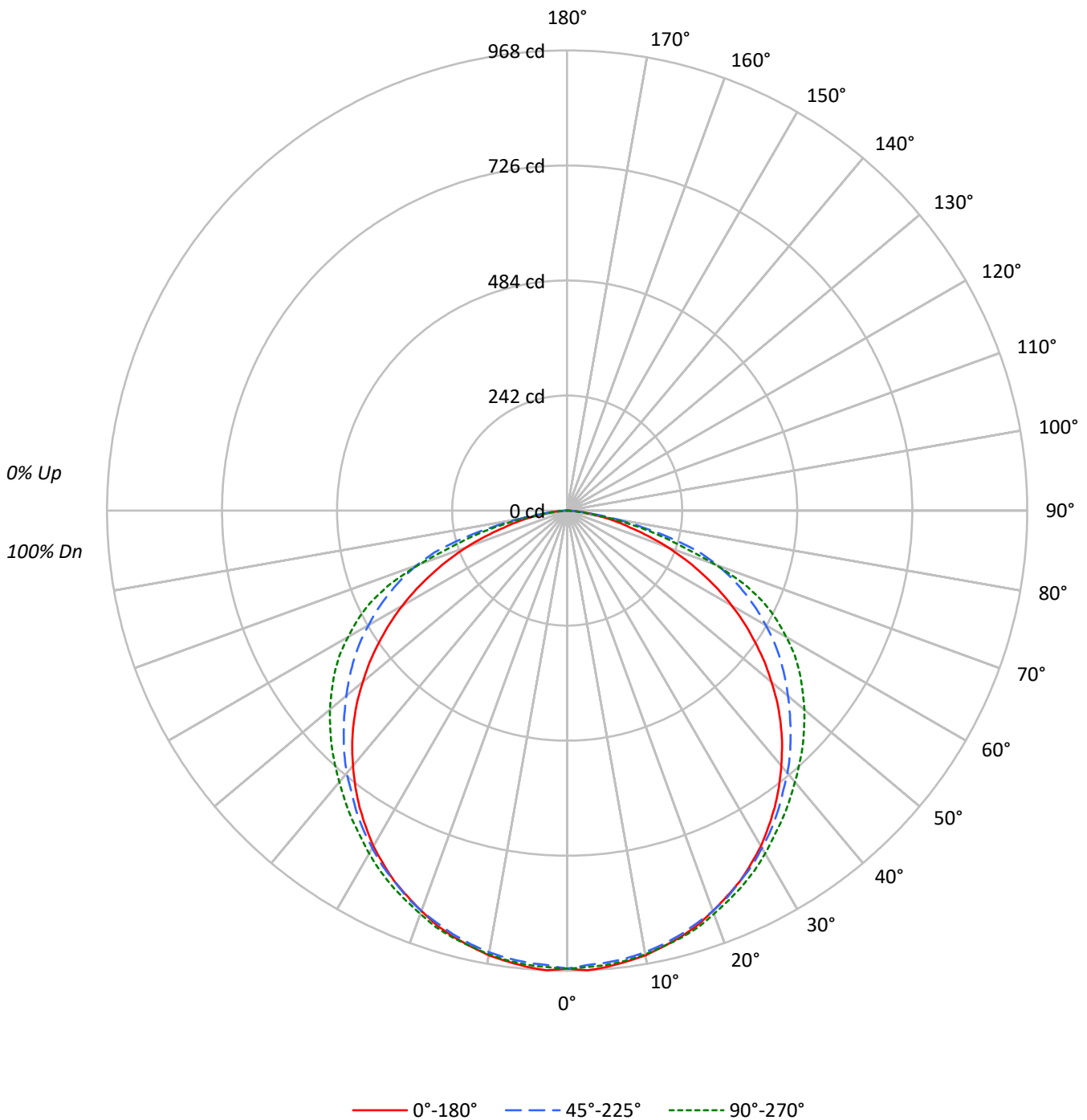
Input Watts (W): 36.642
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2593	2593	2593
5°	2603	2579	2591
10°	2596	2578	2590
15°	2584	2572	2591
20°	2566	2566	2586
25°	2554	2554	2588
30°	2533	2547	2589
35°	2501	2538	2597
40°	2462	2533	2620
45°	2419	2530	2667
50°	2351	2539	2727
55°	2266	2571	2803
60°	2152	2599	2865
65°	1988	2632	2904
70°	1767	2651	2598
75°	1424	2382	2078
80°	1114	1671	1358
85°	763	485	346



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.2	3.2
10°-20°	261.7	9.1
20°-30°	398.4	13.8
30°-40°	485.3	16.9
40°-50°	514.9	17.9
50°-60°	485.9	16.9
60°-70°	392.3	13.6
70°-80°	212.8	7.4
80°-90°	34.4	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°	751.3	26.1
0°-40°	1236.6	43.0
0°-60°	2237.4	77.8
0°-90°	2877.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2877.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	964	964	964	964	964	
5°	964	961	955	961	959	92
15°	928	925	923	930	930	262
25°	860	858	860	869	872	396
35°	761	766	773	788	791	476
45°	636	645	665	690	701	489
55°	483	503	548	584	598	431
65°	312	350	413	447	456	309
75°	137	200	229	207	200	150
85°	25	27	16	14	11	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	963.6	963.6	963.6	963.6	963.6
2.5°	968.1	963.6	956.8	963.6	961.3
5°	963.6	961.3	954.6	961.3	959.1
7.5°	956.8	956.8	950.1	954.6	954.6
10°	950.1	947.9	943.4	950.1	947.9
12.5°	938.9	936.6	934.4	941.1	938.9
15°	927.6	925.4	923.2	929.9	929.9
17.5°	914.2	911.9	909.7	918.7	918.7
20°	896.2	896.2	896.2	905.2	902.9
22.5°	878.2	878.2	880.5	889.5	887.2
25°	860.3	858.0	860.3	869.2	871.5
27.5°	837.8	840.0	842.3	851.3	853.5
30°	815.3	817.6	819.8	831.1	833.3
32.5°	788.4	792.9	797.4	810.8	810.8
35°	761.4	765.9	772.7	788.4	790.6
37.5°	732.2	736.7	745.7	763.7	768.2
40°	700.8	707.5	721.0	739.0	745.7
42.5°	669.3	678.3	694.0	714.3	723.2
45°	635.6	644.6	664.8	689.6	700.8
47.5°	599.7	610.9	635.6	667.1	676.1
50°	561.5	577.3	606.4	640.1	651.4
52.5°	523.3	541.3	577.3	613.2	624.4
55°	482.9	503.1	548.1	584.0	597.5
57.5°	442.5	464.9	516.6	554.8	568.3
60°	399.8	426.8	482.9	521.1	532.3
62.5°	357.1	388.6	449.2	487.4	496.4
65°	312.2	350.4	413.3	447.0	456.0
67.5°	269.5	314.5	377.3	402.1	402.1
70°	224.6	274.0	336.9	343.7	330.2
72.5°	179.7	235.8	292.0	267.3	256.1
75°	137.0	199.9	229.1	206.6	199.9
77.5°	103.3	161.7	161.7	148.2	143.8
80°	71.9	123.5	107.8	94.3	87.6
82.5°	47.2	69.6	56.2	44.9	38.2
85°	24.7	27.0	15.7	13.5	11.2
87.5°	9.0	4.5	2.2	4.5	2.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)