

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: P259039

Luminaire Tested: **14CZ-LD5-44-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259039
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35909)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-44-RDP-UNV-L92765-W2A1-U-6500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2776.0 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

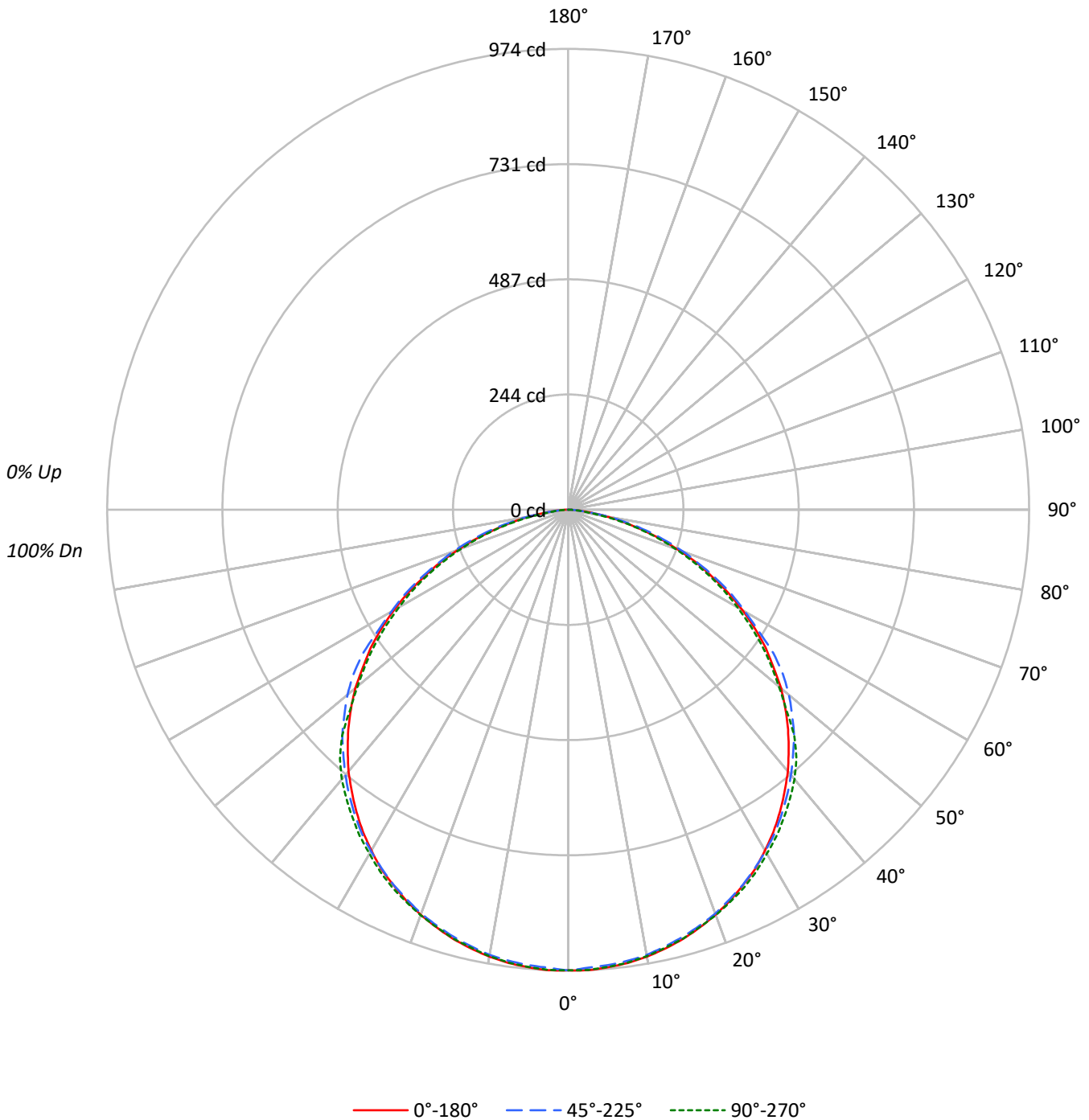
Input Watts (W): 37.293
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	47	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2620	2620	2620
5°	2622	2610	2620
10°	2621	2611	2618
15°	2617	2604	2614
20°	2609	2601	2612
25°	2598	2595	2614
30°	2584	2589	2609
35°	2562	2583	2610
40°	2536	2571	2612
45°	2500	2569	2572
50°	2458	2549	2432
55°	2390	2483	2343
60°	2289	2323	2221
65°	2143	2201	2085
70°	1950	2029	1887
75°	1627	1778	1599
80°	1289	1361	1108
85°	837	726	642



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.2	3.3
10°-20°	264.7	9.5
20°-30°	404.1	14.6
30°-40°	492.7	17.7
40°-50°	515.9	18.6
50°-60°	458.9	16.5
60°-70°	338.6	12.2
70°-80°	174.9	6.3
80°-90°	34.0	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°	761.0	27.4
0°-40°	1253.6	45.2
0°-60°	2228.5	80.3
0°-90°	2776.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2776.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	974	974	974	974	974	
5°	971	970	966	970	970	92
15°	939	938	935	938	938	265
25°	875	875	874	880	880	403
35°	780	781	786	795	794	488
45°	657	661	675	681	676	507
55°	509	520	529	507	499	454
65°	337	360	346	334	328	334
75°	156	173	171	157	154	169
85°	27	30	24	22	21	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	973.6	973.6	973.6	973.6	973.6
2.5°	974.5	973.6	969.0	973.6	973.6
5°	970.8	969.9	966.3	969.9	969.9
7.5°	966.3	965.4	961.8	965.4	965.4
10°	959.1	958.2	955.5	959.1	958.2
12.5°	950.0	950.0	945.5	950.0	948.2
15°	939.2	938.3	934.6	938.3	938.3
17.5°	925.6	924.7	922.0	926.5	924.7
20°	911.1	910.2	908.4	912.9	912.0
22.5°	893.9	893.9	891.2	896.6	896.6
25°	874.9	874.9	874.0	880.4	880.4
27.5°	855.9	854.1	854.1	860.5	861.4
30°	831.5	831.5	833.3	840.5	839.6
32.5°	807.1	808.0	811.6	817.9	818.8
35°	779.9	780.8	786.3	795.3	794.4
37.5°	751.0	753.7	760.0	770.0	770.0
40°	722.0	723.8	732.0	742.8	743.7
42.5°	689.4	694.0	703.0	715.7	713.9
45°	656.9	661.4	675.0	681.3	675.9
47.5°	622.5	627.9	641.5	642.4	624.3
50°	587.2	593.5	608.9	590.8	580.9
52.5°	546.5	558.3	571.8	546.5	540.2
55°	509.4	520.3	529.3	506.7	499.4
57.5°	467.8	482.3	475.9	465.1	456.0
60°	425.3	440.6	431.6	420.7	412.6
62.5°	381.8	399.0	390.0	379.1	371.9
65°	336.6	360.1	345.6	333.9	327.5
67.5°	294.1	316.7	299.5	290.4	284.1
70°	247.9	266.9	257.9	246.1	239.8
72.5°	202.7	217.1	214.4	201.8	197.2
75°	156.5	172.8	171.0	157.4	153.8
77.5°	117.6	133.0	127.6	116.7	112.2
80°	83.2	93.2	87.8	75.1	71.5
82.5°	50.7	58.8	49.8	42.5	38.9
85°	27.1	29.9	23.5	21.7	20.8
87.5°	10.0	10.0	10.0	9.0	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)