

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: P258983

Luminaire Tested: **14CZ-LD5-44-RDP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258983
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-L82765-W2A1-U-5500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3041.0 lumens
Efficiency: N/A
Efficacy: 83.0 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

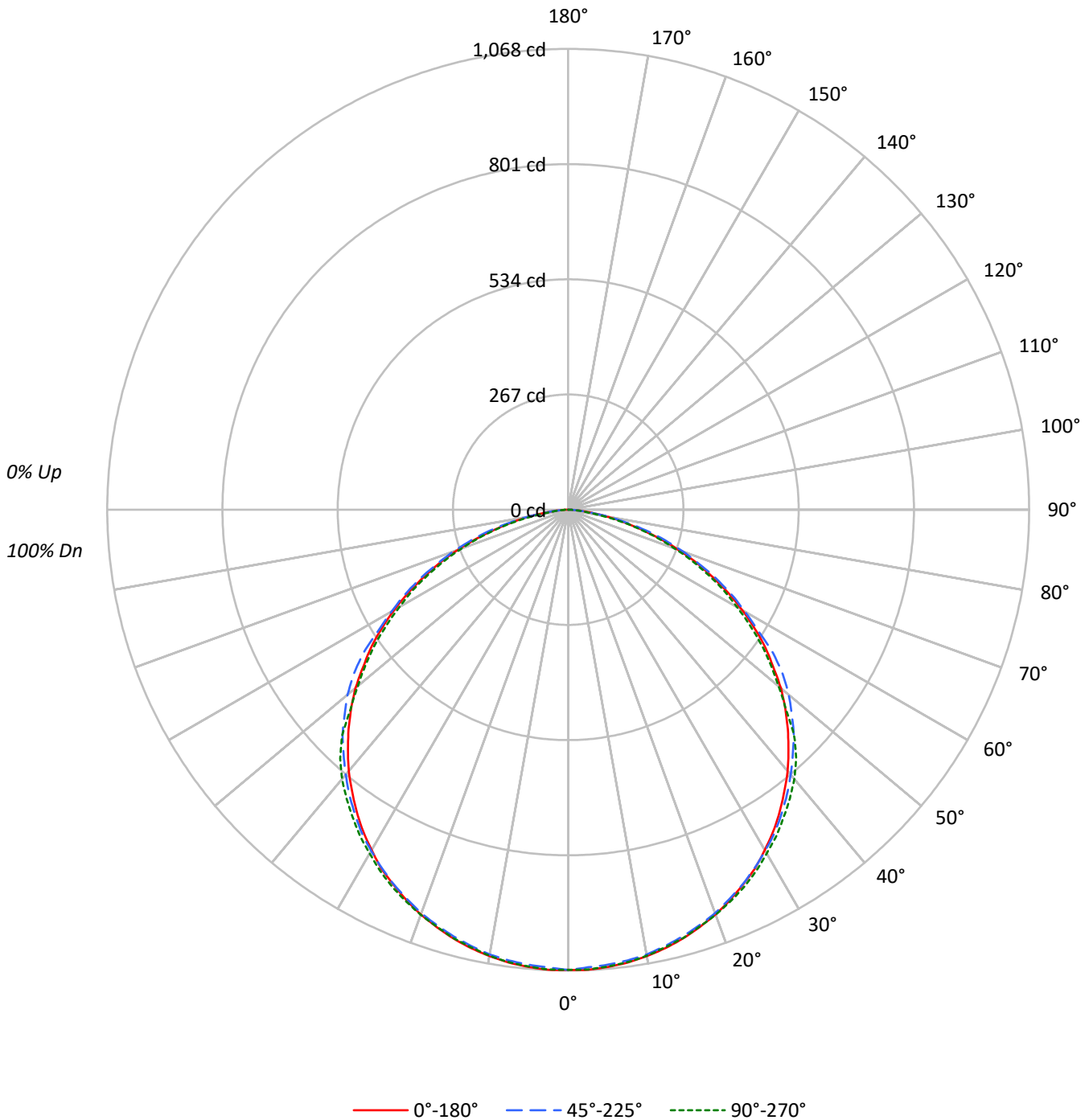
Input Watts (W): 36.642
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2870	2870	2870
5°	2873	2860	2870
10°	2871	2860	2868
15°	2866	2852	2863
20°	2858	2850	2861
25°	2846	2843	2863
30°	2830	2837	2858
35°	2807	2829	2859
40°	2778	2817	2862
45°	2739	2814	2818
50°	2693	2793	2664
55°	2618	2720	2567
60°	2507	2545	2433
65°	2348	2411	2285
70°	2137	2223	2067
75°	1783	1947	1752
80°	1413	1489	1213
85°	917	797	704



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.0	3.3
10°-20°	290.0	9.5
20°-30°	442.7	14.6
30°-40°	539.7	17.7
40°-50°	565.1	18.6
50°-60°	502.8	16.5
60°-70°	370.9	12.2
70°-80°	191.7	6.3
80°-90°	37.2	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°	833.6	27.4
0°-40°	1373.3	45.2
0°-60°	2441.2	80.3
0°-90°	3041.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3041.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1066	1066	1066	1066	1066	
5°	1064	1062	1059	1062	1062	101
15°	1029	1028	1024	1028	1028	290
25°	958	958	958	964	964	442
35°	854	855	861	871	870	534
45°	720	724	739	746	740	555
55°	558	570	580	555	547	497
65°	369	394	379	366	359	366
75°	172	189	187	172	168	185
85°	30	33	26	24	23	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1066.5	1066.5	1066.5	1066.5	1066.5
2.5°	1067.5	1066.5	1061.5	1066.5	1066.5
5°	1063.5	1062.5	1058.6	1062.5	1062.5
7.5°	1058.6	1057.6	1053.6	1057.6	1057.6
10°	1050.6	1049.6	1046.7	1050.6	1049.6
12.5°	1040.7	1040.7	1035.8	1040.7	1038.7
15°	1028.8	1027.8	1023.9	1027.8	1027.8
17.5°	1014.0	1013.0	1010.0	1015.0	1013.0
20°	998.1	997.1	995.1	1000.1	999.1
22.5°	979.3	979.3	976.3	982.2	982.2
25°	958.5	958.5	957.5	964.4	964.4
27.5°	937.6	935.7	935.7	942.6	943.6
30°	910.9	910.9	912.9	920.8	919.8
32.5°	884.1	885.1	889.1	896.0	897.0
35°	854.4	855.4	861.3	871.2	870.2
37.5°	822.7	825.6	832.6	843.5	843.5
40°	790.9	792.9	801.9	813.7	814.7
42.5°	755.3	760.2	770.1	784.0	782.0
45°	719.6	724.5	739.4	746.3	740.4
47.5°	681.9	687.9	702.7	703.7	683.9
50°	643.3	650.2	667.1	647.2	636.3
52.5°	598.7	611.5	626.4	598.7	591.7
55°	558.0	569.9	579.8	555.1	547.1
57.5°	512.4	528.3	521.4	509.5	499.5
60°	465.8	482.7	472.8	460.9	452.0
62.5°	418.3	437.1	427.2	415.3	407.4
65°	368.7	394.5	378.6	365.7	358.8
67.5°	322.1	346.9	328.1	318.2	311.2
70°	271.6	292.4	282.5	269.6	262.7
72.5°	222.0	237.9	234.9	221.0	216.1
75°	171.5	189.3	187.3	172.5	168.5
77.5°	128.9	145.7	139.8	127.9	122.9
80°	91.2	102.1	96.1	82.3	78.3
82.5°	55.5	64.4	54.5	46.6	42.6
85°	29.7	32.7	25.8	23.8	22.8
87.5°	10.9	10.9	10.9	9.9	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)