

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: P258898

Luminaire Tested: **14CZ-LD5-44-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258898
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-L83050-W2A1-U-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2924.0 lumens
Efficiency: N/A
Efficacy: 82.1 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

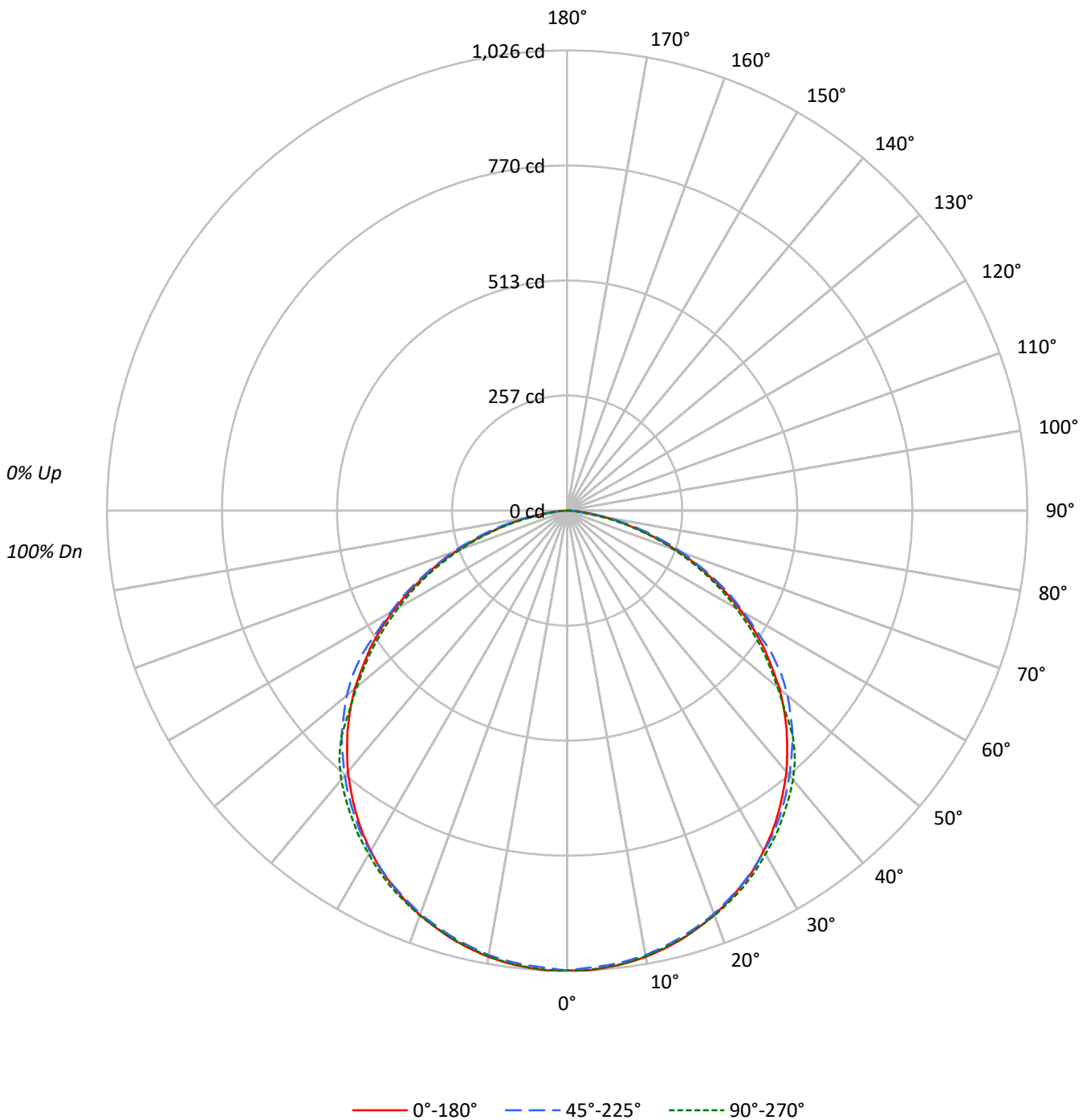
Input Watts (W): 35.619
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2760	2760	2760
5°	2762	2749	2760
10°	2760	2750	2758
15°	2756	2743	2753
20°	2748	2740	2751
25°	2736	2733	2753
30°	2721	2727	2748
35°	2699	2721	2749
40°	2672	2708	2752
45°	2633	2706	2709
50°	2589	2685	2561
55°	2518	2616	2468
60°	2411	2447	2339
65°	2257	2318	2197
70°	2054	2137	1987
75°	1714	1873	1684
80°	1359	1432	1167
85°	883	766	676



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.1	3.3
10°-20°	278.8	9.5
20°-30°	425.6	14.6
30°-40°	518.9	17.7
40°-50°	543.4	18.6
50°-60°	483.4	16.5
60°-70°	356.7	12.2
70°-80°	184.3	6.3
80°-90°	35.8	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°	801.5	27.4
0°-40°	1320.5	45.2
0°-60°	2347.3	80.3
0°-90°	2924.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2924.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1026	1026	1026	1026	1026	
5°	1023	1022	1018	1022	1022	97
15°	989	988	984	988	988	279
25°	922	922	921	927	927	425
35°	822	822	828	838	837	514
45°	692	697	711	718	712	534
55°	537	548	558	534	526	478
65°	354	379	364	352	345	351
75°	165	182	180	166	162	178
85°	29	31	25	23	22	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1025.5	1025.5	1025.5	1025.5	1025.5
2.5°	1026.4	1025.5	1020.7	1025.5	1025.5
5°	1022.6	1021.6	1017.8	1021.6	1021.6
7.5°	1017.8	1016.9	1013.1	1016.9	1016.9
10°	1010.2	1009.3	1006.4	1010.2	1009.3
12.5°	1000.7	1000.7	995.9	1000.7	998.8
15°	989.2	988.3	984.5	988.3	988.3
17.5°	974.9	974.0	971.1	975.9	974.0
20°	959.7	958.7	956.8	961.6	960.7
22.5°	941.6	941.6	938.7	944.5	944.5
25°	921.6	921.6	920.6	927.3	927.3
27.5°	901.6	899.7	899.7	906.3	907.3
30°	875.8	875.8	877.7	885.4	884.4
32.5°	850.1	851.1	854.9	861.5	862.5
35°	821.5	822.5	828.2	837.7	836.8
37.5°	791.0	793.9	800.5	811.0	811.0
40°	760.5	762.4	771.0	782.4	783.4
42.5°	726.2	731.0	740.5	753.8	751.9
45°	691.9	696.7	711.0	717.6	711.9
47.5°	655.7	661.4	675.7	676.6	657.6
50°	618.5	625.2	641.4	622.3	611.8
52.5°	575.6	588.0	602.3	575.6	569.0
55°	536.6	548.0	557.5	533.7	526.1
57.5°	492.7	508.0	501.3	489.9	480.3
60°	447.9	464.1	454.6	443.2	434.6
62.5°	402.2	420.3	410.8	399.3	391.7
65°	354.5	379.3	364.1	351.7	345.0
67.5°	309.7	333.6	315.5	305.9	299.3
70°	261.1	281.1	271.6	259.2	252.6
72.5°	213.5	228.7	225.9	212.5	207.8
75°	164.9	182.0	180.1	165.8	162.0
77.5°	123.9	140.1	134.4	122.9	118.2
80°	87.7	98.2	92.4	79.1	75.3
82.5°	53.4	61.9	52.4	44.8	41.0
85°	28.6	31.4	24.8	22.9	21.9
87.5°	10.5	10.5	10.5	9.5	9.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)