

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: P259006

Luminaire Tested: **14CZ-LD5-29-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259006
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-LD5-29-RDP-UNV-L92765-W2A1-U-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1687.0 lumens
Efficiency: N/A
Efficacy: 75.9 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

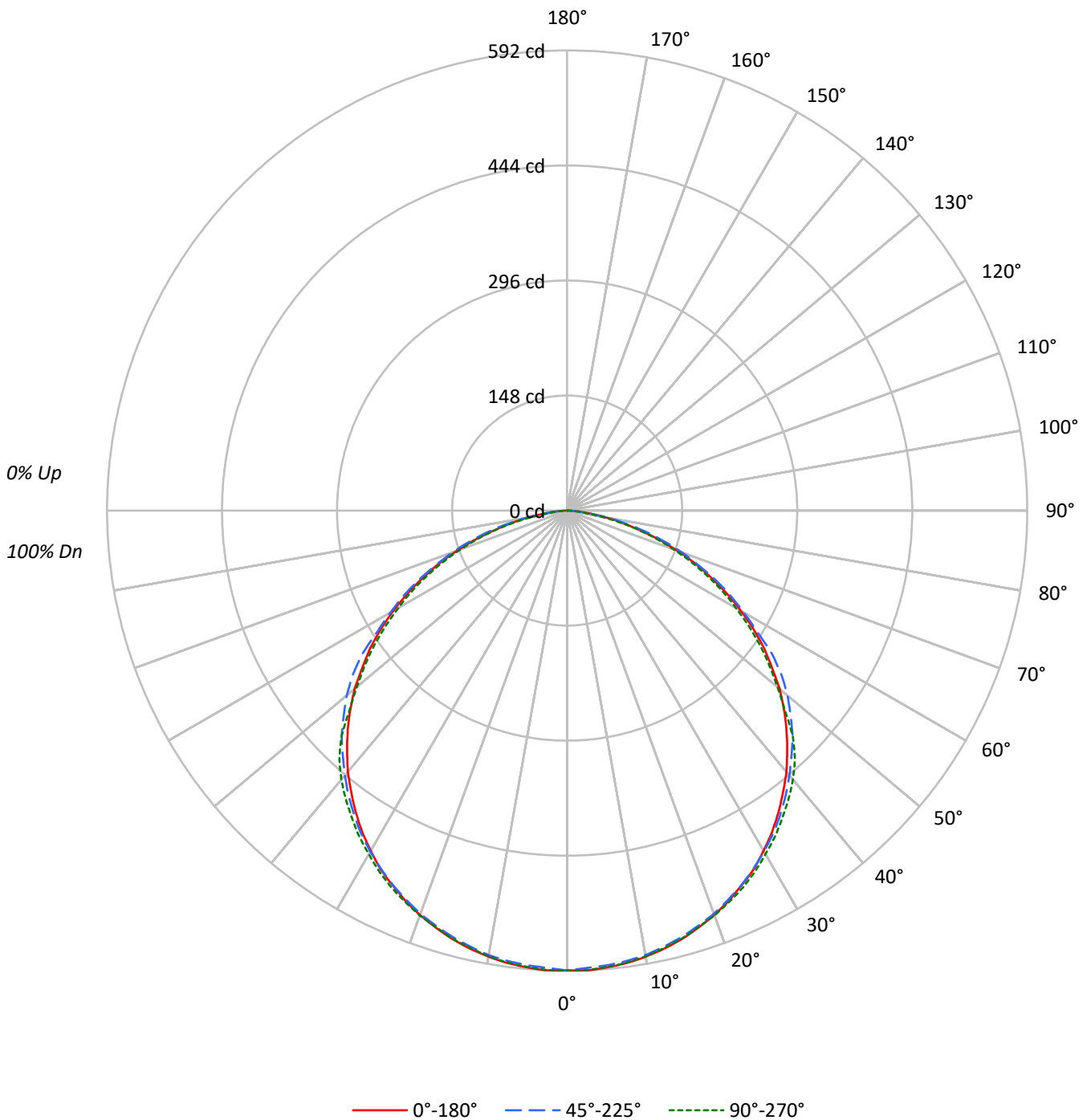
Input Watts (W): 22.227
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1592	1592	1592
5°	1594	1586	1592
10°	1592	1586	1591
15°	1590	1582	1589
20°	1586	1581	1587
25°	1579	1577	1589
30°	1570	1574	1586
35°	1557	1570	1586
40°	1541	1563	1588
45°	1519	1561	1563
50°	1494	1549	1478
55°	1453	1509	1424
60°	1391	1412	1349
65°	1302	1337	1267
70°	1186	1233	1146
75°	989	1080	972
80°	784	826	673
85°	509	442	389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.0	3.3
10°-20°	160.9	9.5
20°-30°	245.6	14.6
30°-40°	299.4	17.7
40°-50°	313.5	18.6
50°-60°	278.9	16.5
60°-70°	205.8	12.2
70°-80°	106.3	6.3
80°-90°	20.6	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°	462.4	27.4
0°-40°	761.8	45.2
0°-60°	1354.2	80.3
0°-90°	1687.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1687.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	592	592	592	592	592	
5°	590	589	587	589	589	56
15°	571	570	568	570	570	161
25°	532	532	531	535	535	245
35°	474	474	478	483	483	296
45°	399	402	410	414	411	308
55°	310	316	322	308	304	276
65°	204	219	210	203	199	203
75°	95	105	104	96	94	103
85°	16	18	14	13	13	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	591.6	591.6	591.6	591.6	591.6
2.5°	592.2	591.6	588.9	591.6	591.6
5°	590.0	589.4	587.2	589.4	589.4
7.5°	587.2	586.7	584.5	586.7	586.7
10°	582.8	582.3	580.6	582.8	582.3
12.5°	577.3	577.3	574.6	577.3	576.2
15°	570.7	570.2	568.0	570.2	570.2
17.5°	562.5	561.9	560.3	563.0	561.9
20°	553.7	553.1	552.0	554.8	554.2
22.5°	543.3	543.3	541.6	544.9	544.9
25°	531.7	531.7	531.2	535.0	535.0
27.5°	520.2	519.1	519.1	522.9	523.5
30°	505.3	505.3	506.4	510.8	510.3
32.5°	490.5	491.0	493.2	497.1	497.6
35°	474.0	474.5	477.8	483.3	482.8
37.5°	456.4	458.0	461.9	467.9	467.9
40°	438.8	439.9	444.8	451.4	452.0
42.5°	419.0	421.7	427.2	434.9	433.8
45°	399.2	401.9	410.2	414.0	410.7
47.5°	378.3	381.6	389.8	390.4	379.4
50°	356.9	360.7	370.0	359.1	353.0
52.5°	332.1	339.3	347.5	332.1	328.3
55°	309.6	316.2	321.7	307.9	303.5
57.5°	284.3	293.1	289.2	282.6	277.1
60°	258.4	267.8	262.3	255.7	250.7
62.5°	232.0	242.5	237.0	230.4	226.0
65°	204.5	218.8	210.0	202.9	199.0
67.5°	178.7	192.4	182.0	176.5	172.7
70°	150.7	162.2	156.7	149.6	145.7
72.5°	123.2	132.0	130.3	122.6	119.9
75°	95.1	105.0	103.9	95.7	93.5
77.5°	71.5	80.8	77.5	70.9	68.2
80°	50.6	56.6	53.3	45.6	43.4
82.5°	30.8	35.7	30.2	25.8	23.6
85°	16.5	18.1	14.3	13.2	12.6
87.5°	6.0	6.0	6.0	5.5	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)