

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: P259005

Luminaire Tested: **14CZ-LD5-29-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259005
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-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1607.0 lumens
Efficiency: N/A
Efficacy: 73.2 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

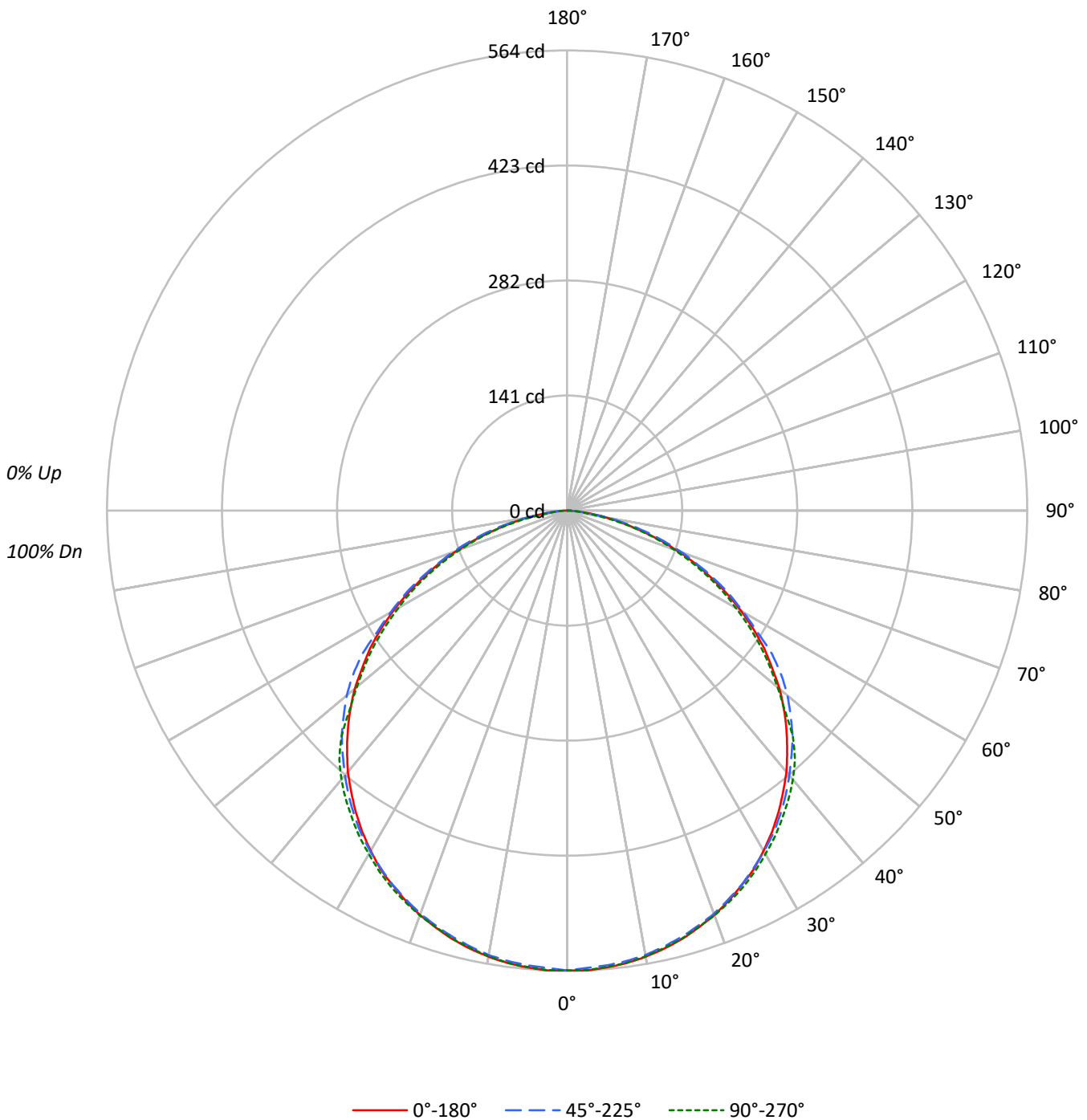
Input Watts (W): 21.948
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1517	1517	1517
5°	1518	1511	1517
10°	1517	1511	1516
15°	1515	1507	1513
20°	1510	1506	1512
25°	1504	1502	1513
30°	1496	1499	1510
35°	1483	1495	1511
40°	1468	1488	1512
45°	1447	1487	1489
50°	1423	1476	1408
55°	1384	1437	1356
60°	1325	1344	1285
65°	1240	1274	1207
70°	1129	1175	1092
75°	942	1029	925
80°	747	787	642
85°	485	420	371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	3.3
10°-20°	153.2	9.5
20°-30°	233.9	14.6
30°-40°	285.2	17.7
40°-50°	298.6	18.6
50°-60°	265.7	16.5
60°-70°	196.0	12.2
70°-80°	101.3	6.3
80°-90°	19.7	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°	440.5	27.4
0°-40°	725.7	45.2
0°-60°	1290.0	80.3
0°-90°	1607.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1607.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	564	564	564	564	564	
5°	562	562	559	562	562	53
15°	544	543	541	543	543	153
25°	506	506	506	510	510	234
35°	452	452	455	460	460	282
45°	380	383	391	394	391	293
55°	295	301	306	293	289	263
65°	195	208	200	193	190	193
75°	91	100	99	91	89	98
85°	16	17	14	13	12	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	563.6	563.6	563.6	563.6	563.6
2.5°	564.1	563.6	561.0	563.6	563.6
5°	562.0	561.5	559.4	561.5	561.5
7.5°	559.4	558.9	556.8	558.9	558.9
10°	555.2	554.7	553.1	555.2	554.7
12.5°	550.0	550.0	547.3	550.0	548.9
15°	543.7	543.2	541.1	543.2	543.2
17.5°	535.8	535.3	533.7	536.3	535.3
20°	527.4	526.9	525.9	528.5	528.0
22.5°	517.5	517.5	515.9	519.1	519.1
25°	506.5	506.5	506.0	509.6	509.6
27.5°	495.5	494.4	494.4	498.1	498.6
30°	481.3	481.3	482.4	486.6	486.1
32.5°	467.2	467.7	469.8	473.5	474.0
35°	451.5	452.0	455.2	460.4	459.9
37.5°	434.7	436.3	440.0	445.7	445.7
40°	418.0	419.0	423.7	430.0	430.5
42.5°	399.1	401.7	407.0	414.3	413.3
45°	380.3	382.9	390.7	394.4	391.3
47.5°	360.4	363.5	371.4	371.9	361.4
50°	339.9	343.6	352.5	342.0	336.3
52.5°	316.4	323.2	331.0	316.4	312.7
55°	294.9	301.2	306.4	293.3	289.1
57.5°	270.8	279.2	275.5	269.2	264.0
60°	246.2	255.1	249.8	243.6	238.8
62.5°	221.0	231.0	225.7	219.5	215.3
65°	194.8	208.5	200.1	193.3	189.6
67.5°	170.2	183.3	173.4	168.1	164.5
70°	143.5	154.5	149.3	142.5	138.8
72.5°	117.3	125.7	124.1	116.8	114.2
75°	90.6	100.0	99.0	91.1	89.0
77.5°	68.1	77.0	73.9	67.6	64.9
80°	48.2	53.9	50.8	43.5	41.4
82.5°	29.3	34.0	28.8	24.6	22.5
85°	15.7	17.3	13.6	12.6	12.0
87.5°	5.8	5.8	5.8	5.2	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)