

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: P275864

Luminaire Tested: **14CZ2-29-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275864
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-29-RDP-UNV-L92765-W2A1-U-6500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1766.0 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

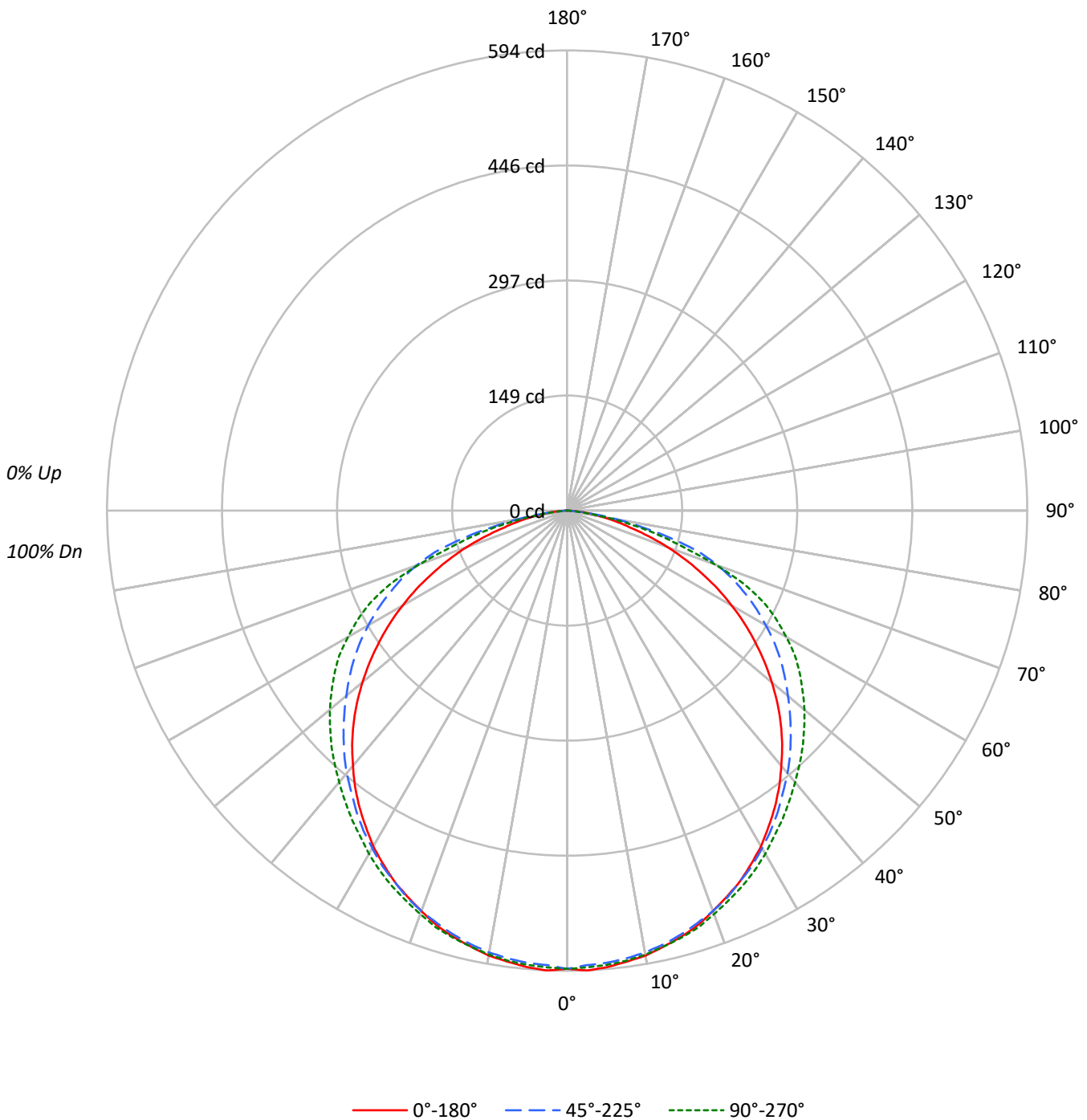
Input Watts (W): 23.157
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1592	1592	1592
5°	1598	1583	1590
10°	1594	1582	1590
15°	1586	1579	1590
20°	1575	1575	1587
25°	1568	1568	1589
30°	1555	1564	1589
35°	1535	1558	1594
40°	1511	1555	1608
45°	1485	1553	1637
50°	1443	1559	1674
55°	1391	1578	1720
60°	1321	1595	1759
65°	1220	1615	1782
70°	1085	1627	1595
75°	874	1462	1276
80°	683	1026	834
85°	469	299	213



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.0	3.2
10°-20°	160.6	9.1
20°-30°	244.6	13.8
30°-40°	297.9	16.9
40°-50°	316.0	17.9
50°-60°	298.3	16.9
60°-70°	240.8	13.6
70°-80°	130.6	7.4
80°-90°	21.2	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°	461.2	26.1
0°-40°	759.1	43.0
0°-60°	1373.4	77.8
0°-90°	1766.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1766.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	592	592	592	592	592	
5°	592	590	586	590	589	56
15°	569	568	567	571	571	161
25°	528	527	528	534	535	243
35°	467	470	474	484	485	292
45°	390	396	408	423	430	300
55°	296	309	336	358	367	265
65°	192	215	254	274	280	190
75°	84	123	141	127	123	92
85°	15	16	10	8	7	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	591.5	591.5	591.5	591.5	591.5
2.5°	594.2	591.5	587.3	591.5	590.1
5°	591.5	590.1	586.0	590.1	588.7
7.5°	587.3	587.3	583.2	586.0	586.0
10°	583.2	581.8	579.1	583.2	581.8
12.5°	576.3	574.9	573.6	577.7	576.3
15°	569.4	568.0	566.7	570.8	570.8
17.5°	561.1	559.8	558.4	563.9	563.9
20°	550.1	550.1	550.1	555.6	554.3
22.5°	539.1	539.1	540.5	546.0	544.6
25°	528.1	526.7	528.1	533.6	535.0
27.5°	514.3	515.6	517.0	522.5	523.9
30°	500.5	501.9	503.2	510.1	511.5
32.5°	483.9	486.7	489.5	497.7	497.7
35°	467.4	470.1	474.3	483.9	485.3
37.5°	449.5	452.2	457.7	468.8	471.5
40°	430.2	434.3	442.6	453.6	457.7
42.5°	410.9	416.4	426.0	438.4	444.0
45°	390.2	395.7	408.1	423.3	430.2
47.5°	368.1	375.0	390.2	409.5	415.0
50°	344.7	354.3	372.3	392.9	399.8
52.5°	321.2	332.3	354.3	376.4	383.3
55°	296.4	308.8	336.4	358.5	366.7
57.5°	271.6	285.4	317.1	340.5	348.8
60°	245.4	262.0	296.4	319.9	326.8
62.5°	219.2	238.5	275.7	299.2	304.7
65°	191.6	215.1	253.7	274.4	279.9
67.5°	165.4	193.0	231.6	246.8	246.8
70°	137.9	168.2	206.8	210.9	202.7
72.5°	110.3	144.8	179.2	164.1	157.2
75°	84.1	122.7	140.6	126.8	122.7
77.5°	63.4	99.3	99.3	91.0	88.2
80°	44.1	75.8	66.2	57.9	53.8
82.5°	29.0	42.7	34.5	27.6	23.4
85°	15.2	16.5	9.7	8.3	6.9
87.5°	5.5	2.8	1.4	2.8	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)