

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: P275860

Luminaire Tested: **14CZ2-29-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275860
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-4500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1686.0 lumens
Efficiency: N/A
Efficacy: 74.9 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

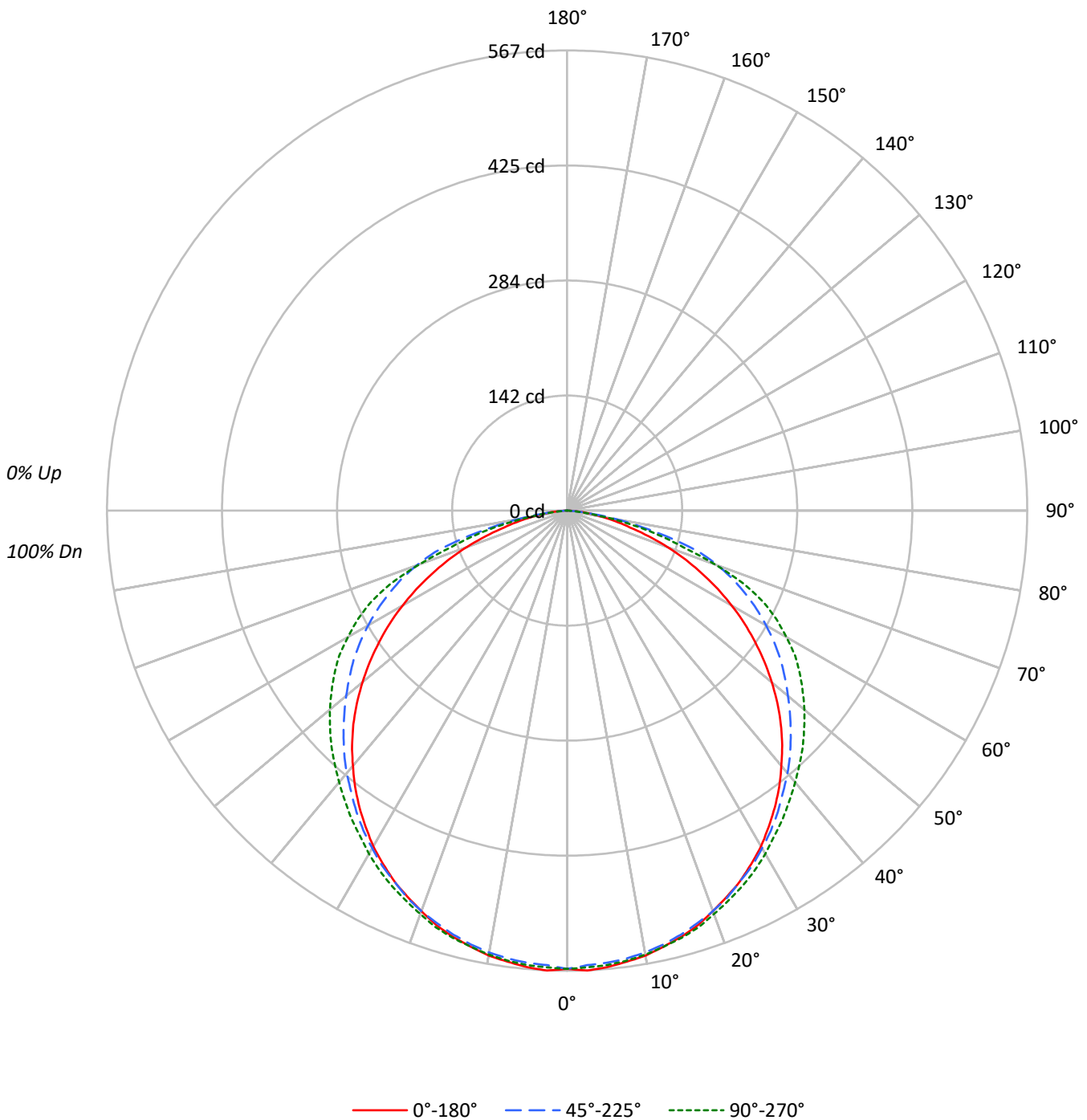
Input Watts (W): 22.506
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P275860

CATALOG NUMBER: 14CZ2-29-RDP-UNV-L92765-W2A1-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P275860

CATALOG NUMBER: 14CZ2-29-RDP-UNV-L92765-W2A1-U-4500K

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°	1520	1520	1520
5°	1525	1511	1518
10°	1521	1511	1518
15°	1514	1507	1518
20°	1504	1504	1515
25°	1497	1497	1516
30°	1485	1493	1517
35°	1466	1487	1522
40°	1443	1484	1535
45°	1418	1483	1563
50°	1378	1488	1598
55°	1328	1507	1643
60°	1261	1523	1679
65°	1165	1542	1701
70°	1035	1553	1522
75°	835	1396	1218
80°	652	979	795
85°	448	284	204



TEST NUMBER: P275860

CATALOG NUMBER: 14CZ2-29-RDP-UNV-L92765-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	3.2
10°-20°	153.3	9.1
20°-30°	233.5	13.8
30°-40°	284.4	16.9
40°-50°	301.7	17.9
50°-60°	284.8	16.9
60°-70°	229.9	13.6
70°-80°	124.7	7.4
80°-90°	20.2	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°	440.3	26.1
0°-40°	724.7	43.0
0°-60°	1311.2	77.8
0°-90°	1686.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1686.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	565	565	565	565	565	
5°	565	563	559	563	562	54
15°	544	542	541	545	545	153
25°	504	503	504	509	511	232
35°	446	449	453	462	463	279
45°	372	378	390	404	411	287
55°	283	295	321	342	350	253
65°	183	205	242	262	267	181
75°	80	117	134	121	117	88
85°	14	16	9	8	7	19
90°	0	0	0	0	0	



TEST NUMBER: P275860

CATALOG NUMBER: 14CZ2-29-RDP-UNV-L92765-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	564.7	564.7	564.7	564.7	564.7
2.5°	567.3	564.7	560.7	564.7	563.4
5°	564.7	563.4	559.4	563.4	562.1
7.5°	560.7	560.7	556.8	559.4	559.4
10°	556.8	555.5	552.8	556.8	555.5
12.5°	550.2	548.9	547.6	551.5	550.2
15°	543.6	542.3	541.0	544.9	544.9
17.5°	535.7	534.4	533.1	538.4	538.4
20°	525.2	525.2	525.2	530.5	529.1
22.5°	514.7	514.7	516.0	521.2	519.9
25°	504.1	502.8	504.1	509.4	510.7
27.5°	491.0	492.3	493.6	498.9	500.2
30°	477.8	479.1	480.4	487.0	488.3
32.5°	462.0	464.6	467.3	475.2	475.2
35°	446.2	448.9	452.8	462.0	463.3
37.5°	429.1	431.7	437.0	447.5	450.2
40°	410.7	414.6	422.5	433.1	437.0
42.5°	392.3	397.5	406.7	418.6	423.8
45°	372.5	377.8	389.6	404.1	410.7
47.5°	351.4	358.0	372.5	390.9	396.2
50°	329.1	338.3	355.4	375.1	381.7
52.5°	306.7	317.2	338.3	359.3	365.9
55°	283.0	294.8	321.2	342.2	350.1
57.5°	259.3	272.5	302.7	325.1	333.0
60°	234.3	250.1	283.0	305.4	312.0
62.5°	209.3	227.7	263.3	285.6	290.9
65°	183.0	205.3	242.2	261.9	267.2
67.5°	158.0	184.3	221.1	235.6	235.6
70°	131.6	160.6	197.4	201.4	193.5
72.5°	105.3	138.2	171.1	156.6	150.1
75°	80.3	117.1	134.3	121.1	117.1
77.5°	60.5	94.8	94.8	86.9	84.2
80°	42.1	72.4	63.2	55.3	51.3
82.5°	27.6	40.8	32.9	26.3	22.4
85°	14.5	15.8	9.2	7.9	6.6
87.5°	5.3	2.6	1.3	2.6	1.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)