

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: P275802

Luminaire Tested: **14CZ2-29-RDP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275802  
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-L82765-W2A1-U-2700K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1707.0 lumens  
Efficiency: N/A  
Efficacy: 77.1 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

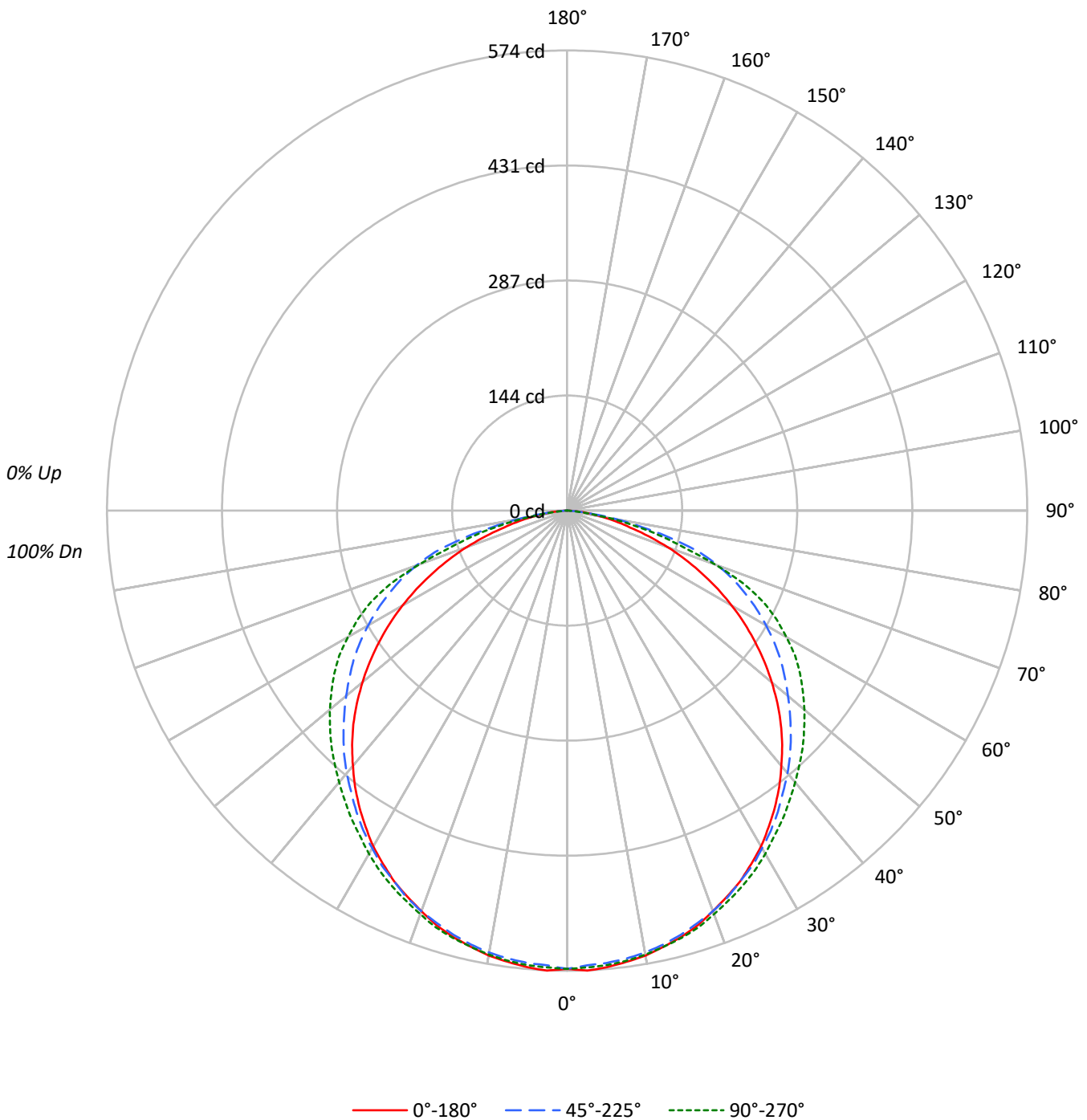
Input Watts (W): 22.134  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1538	1538	1538
5°	1544	1530	1537
10°	1540	1529	1537
15°	1533	1526	1537
20°	1523	1523	1534
25°	1515	1515	1535
30°	1503	1511	1536
35°	1484	1506	1541
40°	1461	1503	1554
45°	1435	1501	1582
50°	1395	1506	1618
55°	1344	1526	1663
60°	1277	1542	1700
65°	1179	1561	1722
70°	1049	1573	1541
75°	845	1413	1233
80°	660	992	806
85°	454	287	207



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.1	3.2
10°-20°	155.3	9.1
20°-30°	236.4	13.8
30°-40°	287.9	16.9
40°-50°	305.5	17.9
50°-60°	288.3	16.9
60°-70°	232.8	13.6
70°-80°	126.3	7.4
80°-90°	20.4	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°	445.8	26.1
0°-40°	733.7	43.0
0°-60°	1327.5	77.8
0°-90°	1707.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1707.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	572	572	572	572	572	
5°	572	570	566	570	569	54
15°	550	549	548	552	552	155
25°	510	509	510	516	517	235
35°	452	454	458	468	469	282
45°	377	382	394	409	416	290
55°	286	298	325	346	354	256
65°	185	208	245	265	270	184
75°	81	119	136	123	119	89
85°	15	16	9	8	7	19
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	571.7	571.7	571.7	571.7	571.7
2.5°	574.4	571.7	567.7	571.7	570.4
5°	571.7	570.4	566.4	570.4	569.1
7.5°	567.7	567.7	563.7	566.4	566.4
10°	563.7	562.4	559.7	563.7	562.4
12.5°	557.1	555.7	554.4	558.4	557.1
15°	550.4	549.1	547.7	551.7	551.7
17.5°	542.4	541.1	539.7	545.1	545.1
20°	531.7	531.7	531.7	537.1	535.7
22.5°	521.1	521.1	522.4	527.7	526.4
25°	510.4	509.1	510.4	515.7	517.1
27.5°	497.1	498.4	499.8	505.1	506.4
30°	483.8	485.1	486.4	493.1	494.4
32.5°	467.8	470.4	473.1	481.1	481.1
35°	451.8	454.4	458.4	467.8	469.1
37.5°	434.5	437.1	442.4	453.1	455.8
40°	415.8	419.8	427.8	438.5	442.4
42.5°	397.1	402.5	411.8	423.8	429.1
45°	377.1	382.5	394.5	409.1	415.8
47.5°	355.8	362.5	377.1	395.8	401.1
50°	333.2	342.5	359.8	379.8	386.5
52.5°	310.5	321.2	342.5	363.8	370.5
55°	286.5	298.5	325.2	346.5	354.5
57.5°	262.5	275.9	306.5	329.2	337.2
60°	237.2	253.2	286.5	309.2	315.8
62.5°	211.9	230.6	266.5	289.2	294.5
65°	185.2	207.9	245.2	265.2	270.5
67.5°	159.9	186.6	223.9	238.5	238.5
70°	133.3	162.6	199.9	203.9	195.9
72.5°	106.6	139.9	173.2	158.6	151.9
75°	81.3	118.6	135.9	122.6	118.6
77.5°	61.3	96.0	96.0	88.0	85.3
80°	42.6	73.3	64.0	56.0	52.0
82.5°	28.0	41.3	33.3	26.7	22.7
85°	14.7	16.0	9.3	8.0	6.7
87.5°	5.3	2.7	1.3	2.7	1.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)