

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: P275862

Luminaire Tested: **14CZ2-29-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275862  
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-5500K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1747.0 lumens  
Efficiency: N/A  
Efficacy: 76.7 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

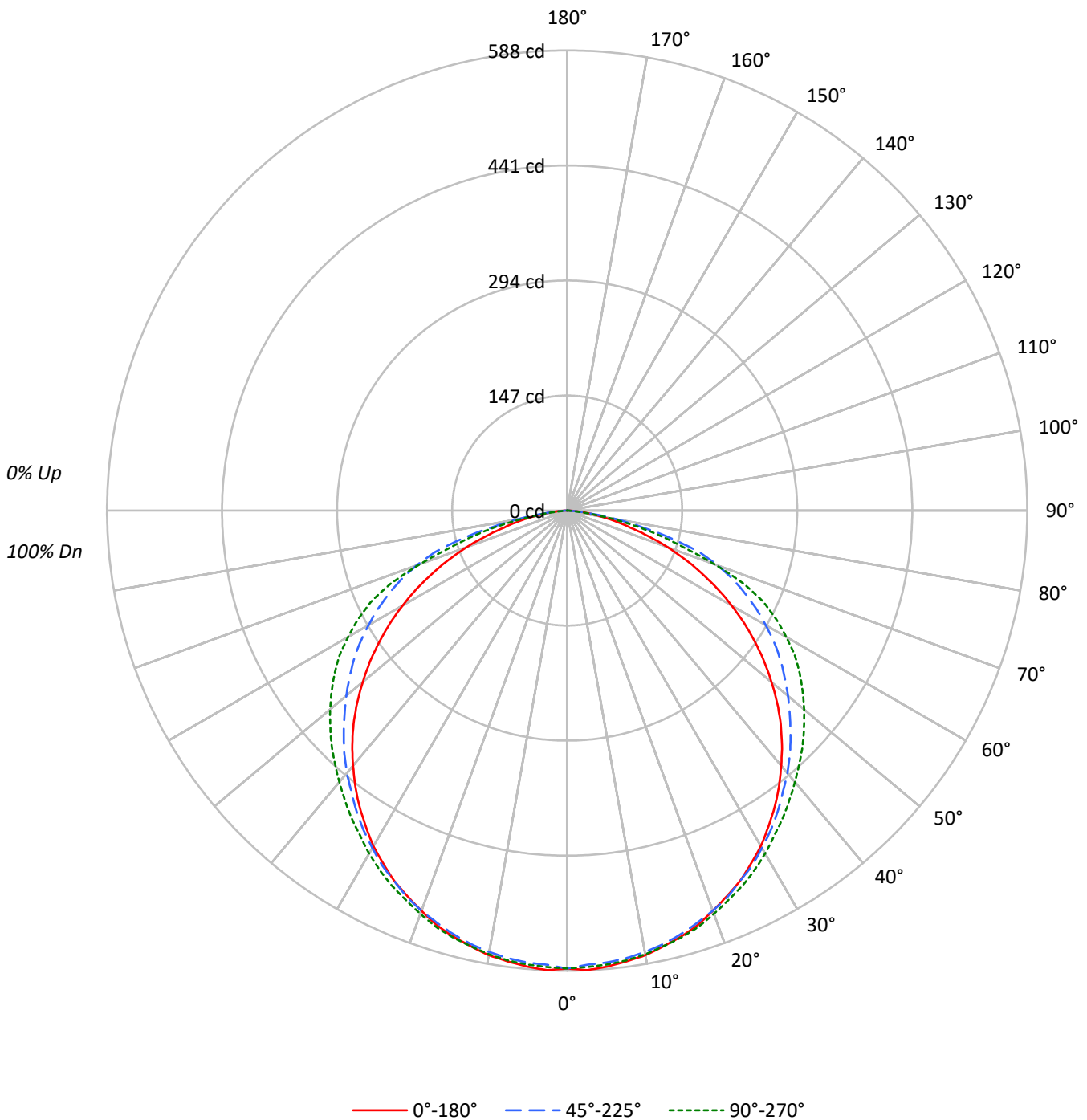
Input Watts (W): 22.785  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1574	1574	1574
5°	1581	1566	1573
10°	1576	1565	1573
15°	1569	1562	1573
20°	1558	1558	1570
25°	1551	1551	1571
30°	1538	1547	1572
35°	1519	1541	1577
40°	1495	1538	1591
45°	1469	1536	1619
50°	1428	1542	1656
55°	1376	1561	1702
60°	1307	1578	1739
65°	1207	1598	1763
70°	1073	1610	1578
75°	865	1446	1262
80°	676	1015	824
85°	463	293	210



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.4	3.2
10°-20°	158.9	9.1
20°-30°	241.9	13.8
30°-40°	294.7	16.9
40°-50°	312.6	17.9
50°-60°	295.1	16.9
60°-70°	238.2	13.6
70°-80°	129.2	7.4
80°-90°	20.9	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°	456.2	26.1
0°-40°	750.9	43.0
0°-60°	1358.6	77.8
0°-90°	1747.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1747.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	585	585	585	585	585	
5°	585	584	580	584	582	56
15°	563	562	561	565	565	159
25°	522	521	522	528	529	240
35°	462	465	469	479	480	289
45°	386	391	404	419	426	297
55°	293	306	333	355	363	262
65°	190	213	251	271	277	188
75°	83	121	139	126	121	91
85°	15	16	10	8	7	19
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	585.1	585.1	585.1	585.1	585.1
2.5°	587.8	585.1	581.0	585.1	583.8
5°	585.1	583.8	579.7	583.8	582.4
7.5°	581.0	581.0	576.9	579.7	579.7
10°	576.9	575.6	572.8	576.9	575.6
12.5°	570.1	568.7	567.4	571.5	570.1
15°	563.3	561.9	560.6	564.7	564.7
17.5°	555.1	553.7	552.4	557.8	557.8
20°	544.2	544.2	544.2	549.7	548.3
22.5°	533.3	533.3	534.7	540.1	538.7
25°	522.4	521.0	522.4	527.8	529.2
27.5°	508.7	510.1	511.5	516.9	518.3
30°	495.1	496.5	497.8	504.6	506.0
32.5°	478.7	481.5	484.2	492.4	492.4
35°	462.4	465.1	469.2	478.7	480.1
37.5°	444.6	447.4	452.8	463.7	466.5
40°	425.5	429.6	437.8	448.7	452.8
42.5°	406.4	411.9	421.4	433.7	439.2
45°	386.0	391.4	403.7	418.7	425.5
47.5°	364.2	371.0	386.0	405.1	410.5
50°	341.0	350.5	368.3	388.7	395.5
52.5°	317.8	328.7	350.5	372.3	379.2
55°	293.2	305.5	332.8	354.6	362.8
57.5°	268.7	282.3	313.7	336.9	345.1
60°	242.8	259.1	293.2	316.4	323.2
62.5°	216.9	236.0	272.8	296.0	301.4
65°	189.6	212.8	251.0	271.4	276.9
67.5°	163.7	190.9	229.1	244.1	244.1
70°	136.4	166.4	204.6	208.7	200.5
72.5°	109.1	143.2	177.3	162.3	155.5
75°	83.2	121.4	139.1	125.5	121.4
77.5°	62.7	98.2	98.2	90.0	87.3
80°	43.6	75.0	65.5	57.3	53.2
82.5°	28.6	42.3	34.1	27.3	23.2
85°	15.0	16.4	9.5	8.2	6.8
87.5°	5.5	2.7	1.4	2.7	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)