

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: P275807

Luminaire Tested: **14CZ2-29-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275807  
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-5000K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1915.0 lumens  
Efficiency: N/A  
Efficacy: 84.4 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

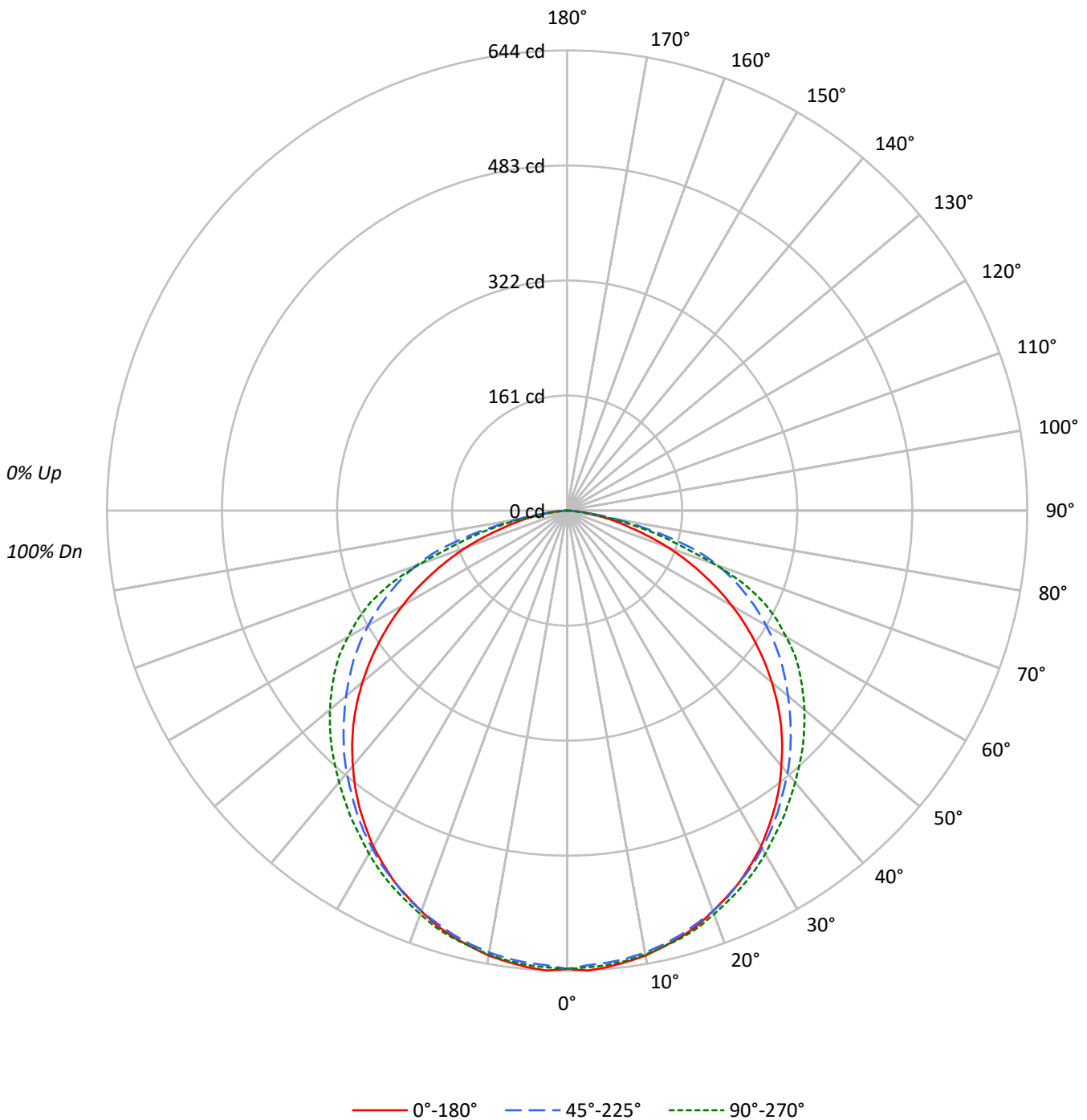
Input Watts (W): 22.692  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1726	1726	1726
5°	1733	1716	1724
10°	1728	1716	1724
15°	1720	1712	1724
20°	1708	1708	1721
25°	1700	1700	1722
30°	1686	1696	1724
35°	1665	1690	1729
40°	1639	1686	1744
45°	1610	1684	1775
50°	1565	1690	1815
55°	1508	1711	1866
60°	1432	1730	1907
65°	1323	1752	1933
70°	1176	1765	1729
75°	948	1586	1384
80°	741	1113	903
85°	506	324	232



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.7	3.2
10°-20°	174.2	9.1
20°-30°	265.2	13.8
30°-40°	323.0	16.9
40°-50°	342.7	17.9
50°-60°	323.4	16.9
60°-70°	261.1	13.6
70°-80°	141.7	7.4
80°-90°	22.9	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°	500.1	26.1
0°-40°	823.1	43.0
0°-60°	1489.3	77.8
0°-90°	1915.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1915.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	641	641	641	641	641	
5°	641	640	635	640	638	61
15°	618	616	614	619	619	174
25°	573	571	573	579	580	264
35°	507	510	514	525	526	317
45°	423	429	442	459	466	326
55°	321	335	365	389	398	287
65°	208	233	275	298	304	206
75°	91	133	152	138	133	100
85°	16	18	10	9	8	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	641.4	641.4	641.4	641.4	641.4
2.5°	644.4	641.4	636.9	641.4	639.9
5°	641.4	639.9	635.4	639.9	638.4
7.5°	636.9	636.9	632.4	635.4	635.4
10°	632.4	630.9	627.9	632.4	630.9
12.5°	624.9	623.4	621.9	626.4	624.9
15°	617.5	616.0	614.5	619.0	619.0
17.5°	608.5	607.0	605.5	611.5	611.5
20°	596.5	596.5	596.5	602.5	601.0
22.5°	584.6	584.6	586.1	592.0	590.6
25°	572.6	571.1	572.6	578.6	580.1
27.5°	557.7	559.2	560.6	566.6	568.1
30°	542.7	544.2	545.7	553.2	554.7
32.5°	524.8	527.8	530.7	539.7	539.7
35°	506.8	509.8	514.3	524.8	526.3
37.5°	487.4	490.4	496.4	508.3	511.3
40°	466.5	470.9	479.9	491.9	496.4
42.5°	445.5	451.5	462.0	475.4	481.4
45°	423.1	429.1	442.5	459.0	466.5
47.5°	399.2	406.7	423.1	444.0	450.0
50°	373.8	384.2	403.7	426.1	433.6
52.5°	348.3	360.3	384.2	408.2	415.6
55°	321.4	334.9	364.8	388.7	397.7
57.5°	294.5	309.5	343.9	369.3	378.3
60°	266.1	284.1	321.4	346.9	354.3
62.5°	237.7	258.6	299.0	324.4	330.4
65°	207.8	233.2	275.1	297.5	303.5
67.5°	179.4	209.3	251.2	267.6	267.6
70°	149.5	182.4	224.3	228.7	219.8
72.5°	119.6	157.0	194.4	177.9	170.4
75°	91.2	133.1	152.5	137.5	133.1
77.5°	68.8	107.6	107.6	98.7	95.7
80°	47.8	82.2	71.8	62.8	58.3
82.5°	31.4	46.3	37.4	29.9	25.4
85°	16.4	17.9	10.5	9.0	7.5
87.5°	6.0	3.0	1.5	3.0	1.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)