

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: P259007

Luminaire Tested: **14CZ-LD5-29-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P259007  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35909)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ-LD5-29-RDP-UNV-L92765-W2A1-U-4000K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1742.0 lumens  
Efficiency: N/A  
Efficacy: 77.7 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

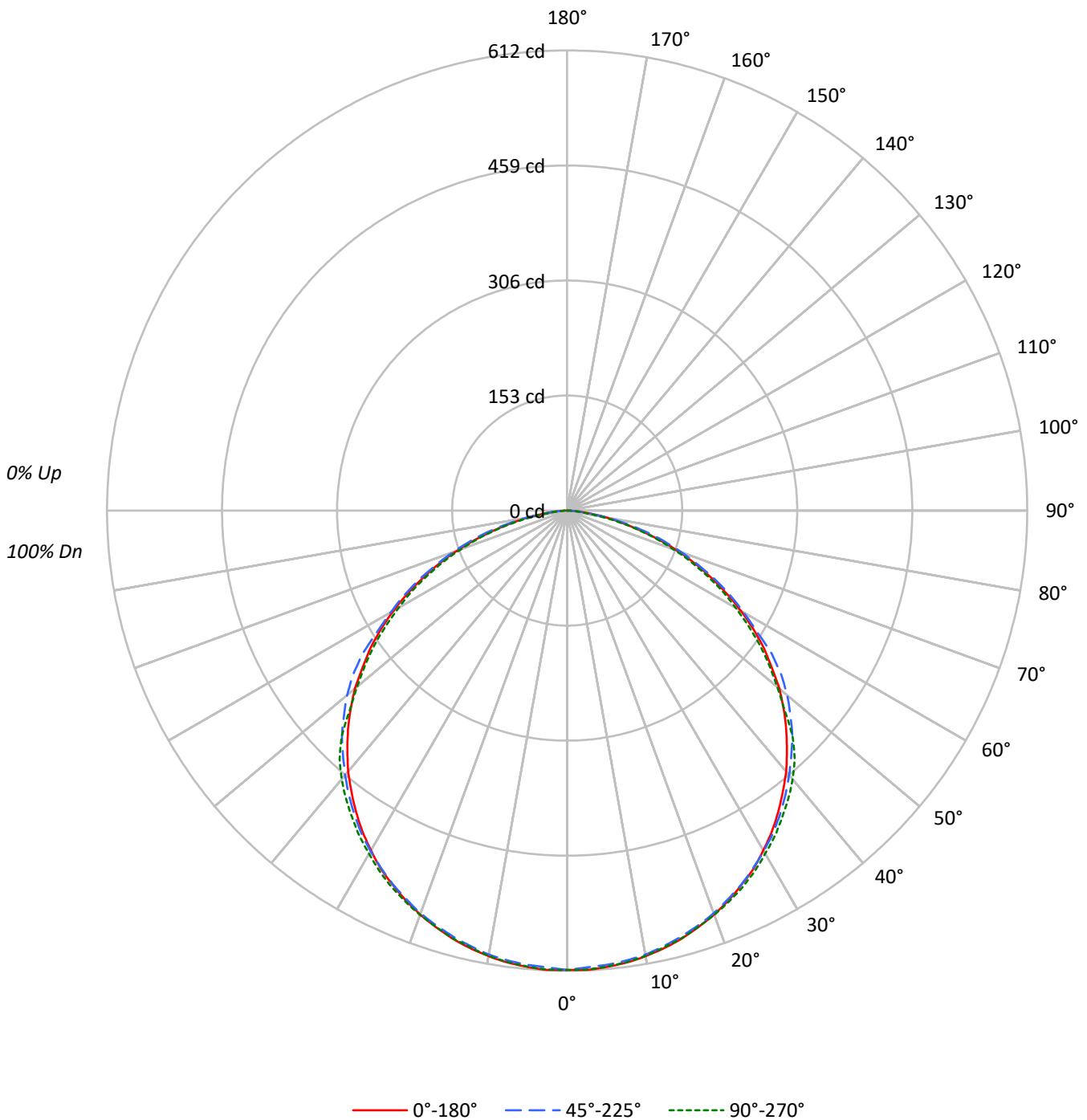
Input Watts (W): 22.413  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	47	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1644	1644	1644
5°	1646	1638	1644
10°	1644	1638	1643
15°	1642	1634	1640
20°	1637	1632	1639
25°	1630	1629	1640
30°	1621	1625	1637
35°	1608	1621	1638
40°	1592	1613	1639
45°	1569	1612	1614
50°	1543	1600	1526
55°	1500	1558	1470
60°	1436	1457	1393
65°	1345	1381	1309
70°	1224	1273	1184
75°	1021	1116	1003
80°	809	854	696
85°	525	457	404



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.8	3.3
10°-20°	166.1	9.5
20°-30°	253.6	14.6
30°-40°	309.2	17.7
40°-50°	323.7	18.6
50°-60°	288.0	16.5
60°-70°	212.5	12.2
70°-80°	109.8	6.3
80°-90°	21.3	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°	477.5	27.4
0°-40°	786.7	45.2
0°-60°	1398.4	80.3
0°-90°	1742.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1742.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	611	611	611	611	611	
5°	609	609	606	609	609	58
15°	589	589	586	589	589	166
25°	549	549	548	552	552	253
35°	489	490	493	499	498	306
45°	412	415	424	428	424	318
55°	320	326	332	318	313	285
65°	211	226	217	210	206	209
75°	98	108	107	99	96	106
85°	17	19	15	14	13	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	610.9	610.9	610.9	610.9	610.9
2.5°	611.5	610.9	608.1	610.9	610.9
5°	609.2	608.7	606.4	608.7	608.7
7.5°	606.4	605.8	603.5	605.8	605.8
10°	601.8	601.3	599.6	601.8	601.3
12.5°	596.2	596.2	593.3	596.2	595.0
15°	589.4	588.8	586.5	588.8	588.8
17.5°	580.8	580.3	578.6	581.4	580.3
20°	571.7	571.2	570.0	572.9	572.3
22.5°	561.0	561.0	559.3	562.7	562.7
25°	549.0	549.0	548.5	552.4	552.4
27.5°	537.1	536.0	536.0	540.0	540.5
30°	521.8	521.8	522.9	527.5	526.9
32.5°	506.5	507.0	509.3	513.3	513.8
35°	489.4	490.0	493.4	499.1	498.5
37.5°	471.3	473.0	476.9	483.2	483.2
40°	453.1	454.2	459.3	466.1	466.7
42.5°	432.6	435.5	441.2	449.1	448.0
45°	412.2	415.0	423.6	427.5	424.1
47.5°	390.6	394.0	402.6	403.1	391.8
50°	368.5	372.5	382.1	370.8	364.5
52.5°	342.9	350.3	358.8	342.9	339.0
55°	319.7	326.5	332.1	318.0	313.4
57.5°	293.5	302.6	298.6	291.8	286.2
60°	266.9	276.5	270.8	264.0	258.9
62.5°	239.6	250.4	244.7	237.9	233.4
65°	211.2	226.0	216.9	209.5	205.5
67.5°	184.5	198.7	187.9	182.3	178.3
70°	155.6	167.5	161.8	154.4	150.5
72.5°	127.2	136.3	134.6	126.6	123.8
75°	98.2	108.4	107.3	98.8	96.5
77.5°	73.8	83.5	80.1	73.2	70.4
80°	52.2	58.5	55.1	47.1	44.9
82.5°	31.8	36.9	31.2	26.7	24.4
85°	17.0	18.7	14.8	13.6	13.1
87.5°	6.2	6.2	6.2	5.7	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)