

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: P258917

Luminaire Tested: **14CZ-LD5-35-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258917  
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-LD5-35-RDP-UNV-L93050-W2A1-U-3000K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1844.0 lumens  
Efficiency: N/A  
Efficacy: 65.7 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

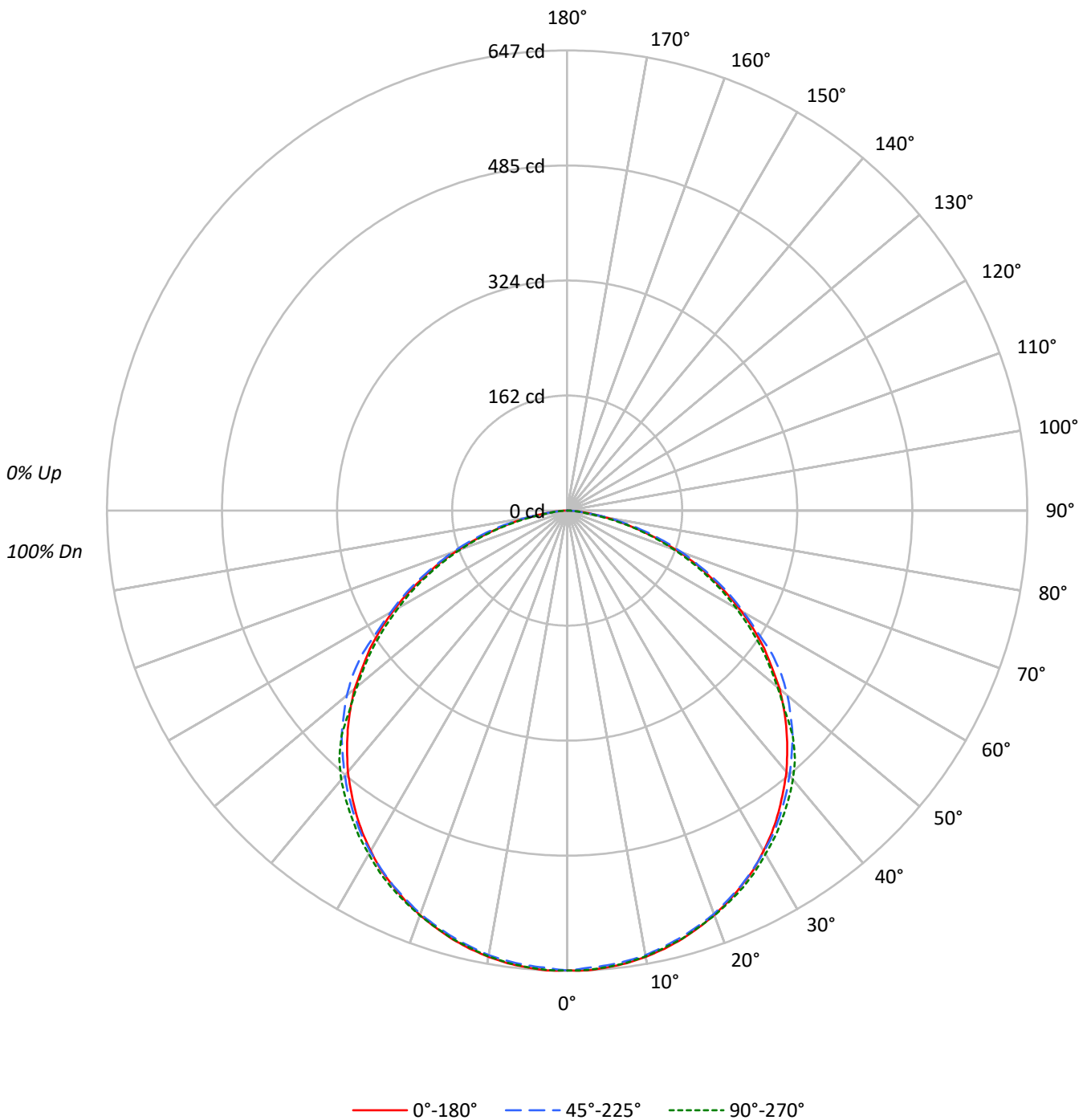
Input Watts (W): 28.086  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P258917

CATALOG NUMBER: 14CZ-LD5-35-RDP-UNV-L93050-W2A1-U-3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P258917

CATALOG NUMBER: 14CZ-LD5-35-RDP-UNV-L93050-W2A1-U-3000K

**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°	1740	1740	1740
5°	1742	1734	1740
10°	1741	1734	1739
15°	1738	1730	1736
20°	1733	1728	1735
25°	1726	1724	1736
30°	1716	1720	1733
35°	1702	1716	1734
40°	1685	1708	1735
45°	1660	1706	1709
50°	1633	1693	1616
55°	1588	1650	1557
60°	1520	1543	1475
65°	1424	1462	1386
70°	1296	1348	1253
75°	1081	1181	1063
80°	857	903	736
85°	556	482	426



TEST NUMBER: P258917

CATALOG NUMBER: 14CZ-LD5-35-RDP-UNV-L93050-W2A1-U-3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.2	3.3
10°-20°	175.8	9.5
20°-30°	268.4	14.6
30°-40°	327.3	17.7
40°-50°	342.7	18.6
50°-60°	304.9	16.5
60°-70°	224.9	12.2
70°-80°	116.2	6.3
80°-90°	22.6	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°	505.5	27.4
0°-40°	832.8	45.2
0°-60°	1480.3	80.3
0°-90°	1844.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1844.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	647	647	647	647	647	
5°	645	644	642	644	644	61
15°	624	623	621	623	623	176
25°	581	581	581	585	585	268
35°	518	519	522	528	528	324
45°	436	439	448	453	449	336
55°	338	346	352	337	332	302
65°	224	239	230	222	218	222
75°	104	115	114	105	102	112
85°	18	20	16	14	14	23
90°	0	0	0	0	0	



TEST NUMBER: P258917

CATALOG NUMBER: 14CZ-LD5-35-RDP-UNV-L93050-W2A1-U-3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	646.7	646.7	646.7	646.7	646.7
2.5°	647.3	646.7	643.7	646.7	646.7
5°	644.9	644.3	641.9	644.3	644.3
7.5°	641.9	641.3	638.9	641.3	641.3
10°	637.1	636.5	634.7	637.1	636.5
12.5°	631.1	631.1	628.1	631.1	629.9
15°	623.9	623.3	620.9	623.3	623.3
17.5°	614.8	614.2	612.4	615.4	614.2
20°	605.2	604.6	603.4	606.4	605.8
22.5°	593.8	593.8	592.0	595.6	595.6
25°	581.2	581.2	580.6	584.8	584.8
27.5°	568.6	567.4	567.4	571.6	572.2
30°	552.3	552.3	553.5	558.3	557.7
32.5°	536.1	536.7	539.1	543.3	543.9
35°	518.1	518.7	522.3	528.3	527.7
37.5°	498.8	500.6	504.9	511.5	511.5
40°	479.6	480.8	486.2	493.4	494.0
42.5°	458.0	461.0	467.0	475.4	474.2
45°	436.3	439.3	448.4	452.6	449.0
47.5°	413.5	417.1	426.1	426.7	414.7
50°	390.1	394.3	404.5	392.5	385.9
52.5°	363.0	370.8	379.8	363.0	358.8
55°	338.4	345.6	351.6	336.6	331.8
57.5°	310.7	320.3	316.1	308.9	302.9
60°	282.5	292.7	286.7	279.5	274.1
62.5°	253.6	265.0	259.0	251.8	247.0
65°	223.6	239.2	229.6	221.8	217.6
67.5°	195.3	210.4	198.9	192.9	188.7
70°	164.7	177.3	171.3	163.5	159.3
72.5°	134.6	144.2	142.4	134.0	131.0
75°	104.0	114.8	113.6	104.6	102.2
77.5°	78.1	88.3	84.7	77.5	74.5
80°	55.3	61.9	58.3	49.9	47.5
82.5°	33.7	39.1	33.1	28.2	25.8
85°	18.0	19.8	15.6	14.4	13.8
87.5°	6.6	6.6	6.6	6.0	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)