

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: P258948

Luminaire Tested: **14CZ-LD5-25-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258948  
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-LD5-25-RDP-UNV-L82765-W2A1-U-5700K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1720.0 lumens  
Efficiency: N/A  
Efficacy: 91.6 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

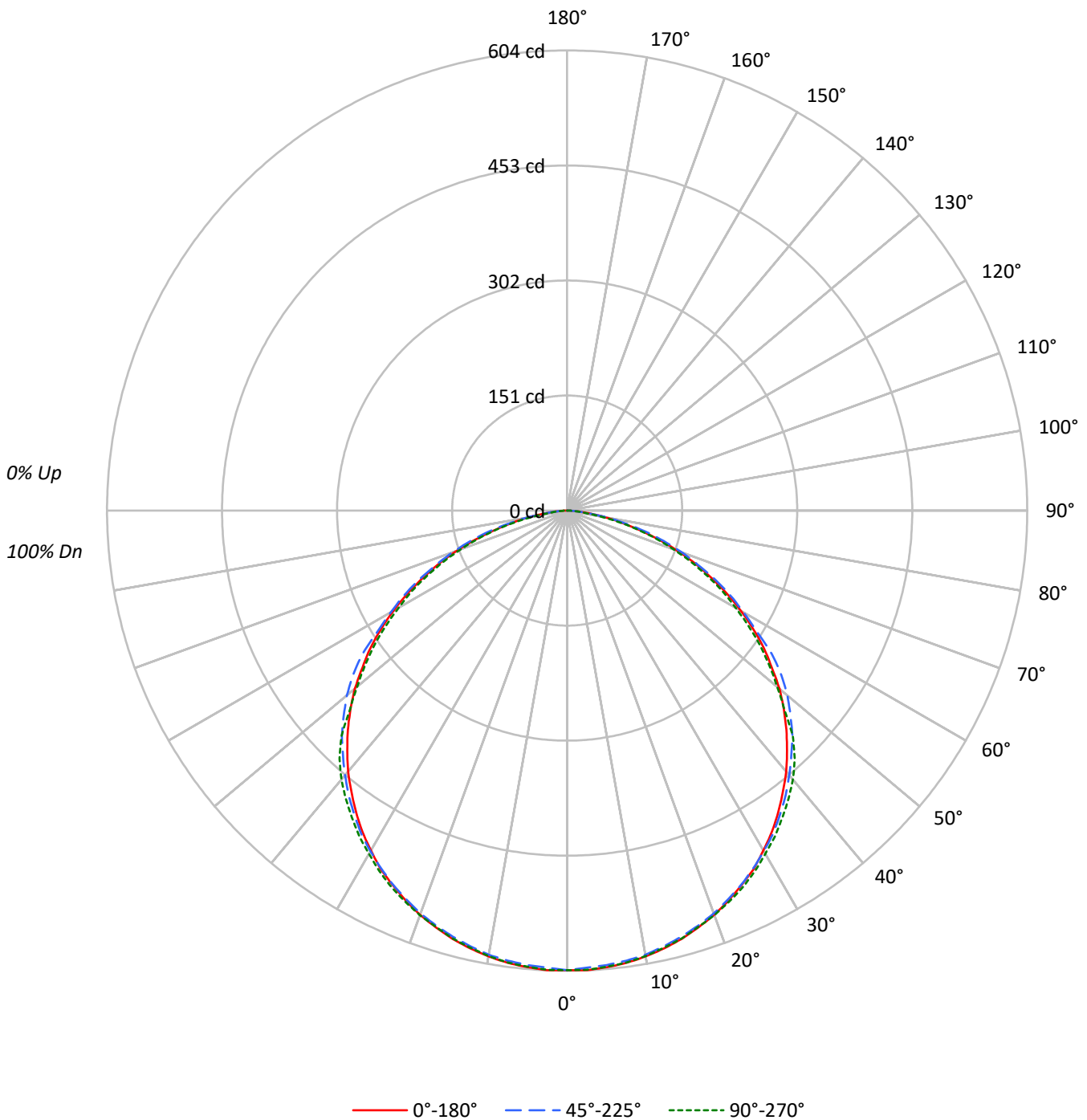
Input Watts (W): 18.786  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P258948

CATALOG NUMBER: 14CZ-LD5-25-RDP-UNV-L82765-W2A1-U-5700K

### Luminous Intensity Polar Plot





TEST NUMBER: P258948

CATALOG NUMBER: 14CZ-LD5-25-RDP-UNV-L82765-W2A1-U-5700K

**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	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					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70					70			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59					59			
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51					51			
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44					44			
6	70	57	48	42	68	56	47	41	54	47	41	52	46	41	51	45	40	38					38			
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34					34			
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30					30			
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27					27			
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24					24			

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

	0°	45°	90°
0°	1623	1623	1623
5°	1625	1617	1623
10°	1624	1618	1622
15°	1621	1613	1619
20°	1617	1612	1618
25°	1610	1608	1620
30°	1601	1604	1616
35°	1587	1600	1617
40°	1572	1593	1619
45°	1549	1592	1594
50°	1523	1580	1507
55°	1481	1539	1452
60°	1418	1439	1376
65°	1328	1364	1292
70°	1209	1257	1169
75°	1009	1102	991
80°	800	843	687
85°	519	451	398



TEST NUMBER: P258948

CATALOG NUMBER: 14CZ-LD5-25-RDP-UNV-L82765-W2A1-U-5700K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.1	3.3
10°-20°	164.0	9.5
20°-30°	250.4	14.6
30°-40°	305.3	17.7
40°-50°	319.6	18.6
50°-60°	284.4	16.5
60°-70°	209.8	12.2
70°-80°	108.4	6.3
80°-90°	21.1	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
<hr/>		
0°-30°	471.5	27.4
0°-40°	776.8	45.2
0°-60°	1380.8	80.3
0°-90°	1720.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1720.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	603	603	603	603	603	
5°	602	601	599	601	601	57
15°	582	581	579	581	581	164
25°	542	542	542	546	546	250
35°	483	484	487	493	492	302
45°	407	410	418	422	419	314
55°	316	322	328	314	310	281
65°	208	223	214	207	203	207
75°	97	107	106	98	95	105
85°	17	18	15	14	13	22
90°	0	0	0	0	0	



TEST NUMBER: P258948

CATALOG NUMBER: 14CZ-LD5-25-RDP-UNV-L82765-W2A1-U-5700K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	603.2	603.2	603.2	603.2	603.2
2.5°	603.8	603.2	600.4	603.2	603.2
5°	601.5	601.0	598.7	601.0	601.0
7.5°	598.7	598.2	595.9	598.2	598.2
10°	594.2	593.7	592.0	594.2	593.7
12.5°	588.6	588.6	585.8	588.6	587.5
15°	581.9	581.3	579.1	581.3	581.3
17.5°	573.5	572.9	571.3	574.1	572.9
20°	564.5	564.0	562.8	565.7	565.1
22.5°	553.9	553.9	552.2	555.6	555.6
25°	542.1	542.1	541.5	545.5	545.5
27.5°	530.3	529.2	529.2	533.1	533.7
30°	515.2	515.2	516.3	520.8	520.2
32.5°	500.1	500.6	502.9	506.8	507.3
35°	483.2	483.8	487.2	492.8	492.2
37.5°	465.3	467.0	470.9	477.1	477.1
40°	447.4	448.5	453.5	460.3	460.8
42.5°	427.2	430.0	435.6	443.4	442.3
45°	407.0	409.8	418.2	422.1	418.8
47.5°	385.7	389.1	397.5	398.0	386.8
50°	363.8	367.8	377.3	366.1	359.9
52.5°	338.6	345.9	354.3	338.6	334.7
55°	315.6	322.3	328.0	313.9	309.5
57.5°	289.8	298.8	294.9	288.2	282.5
60°	263.5	273.0	267.4	260.7	255.6
62.5°	236.6	247.2	241.6	234.9	230.4
65°	208.5	223.1	214.2	206.9	202.9
67.5°	182.2	196.2	185.6	180.0	176.0
70°	153.6	165.4	159.8	152.5	148.6
72.5°	125.6	134.5	132.9	125.0	122.2
75°	97.0	107.1	106.0	97.5	95.3
77.5°	72.9	82.4	79.0	72.3	69.5
80°	51.6	57.7	54.4	46.5	44.3
82.5°	31.4	36.4	30.8	26.3	24.1
85°	16.8	18.5	14.6	13.5	12.9
87.5°	6.2	6.2	6.2	5.6	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)