

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: P259206

Luminaire Tested: **14CZ-LD5-44-SQP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P259206  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35908)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ-LD5-44-SQP-UNV-L92765-W2A1-U-5700K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2652.0 lumens  
Efficiency: N/A  
Efficacy: 72.2 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

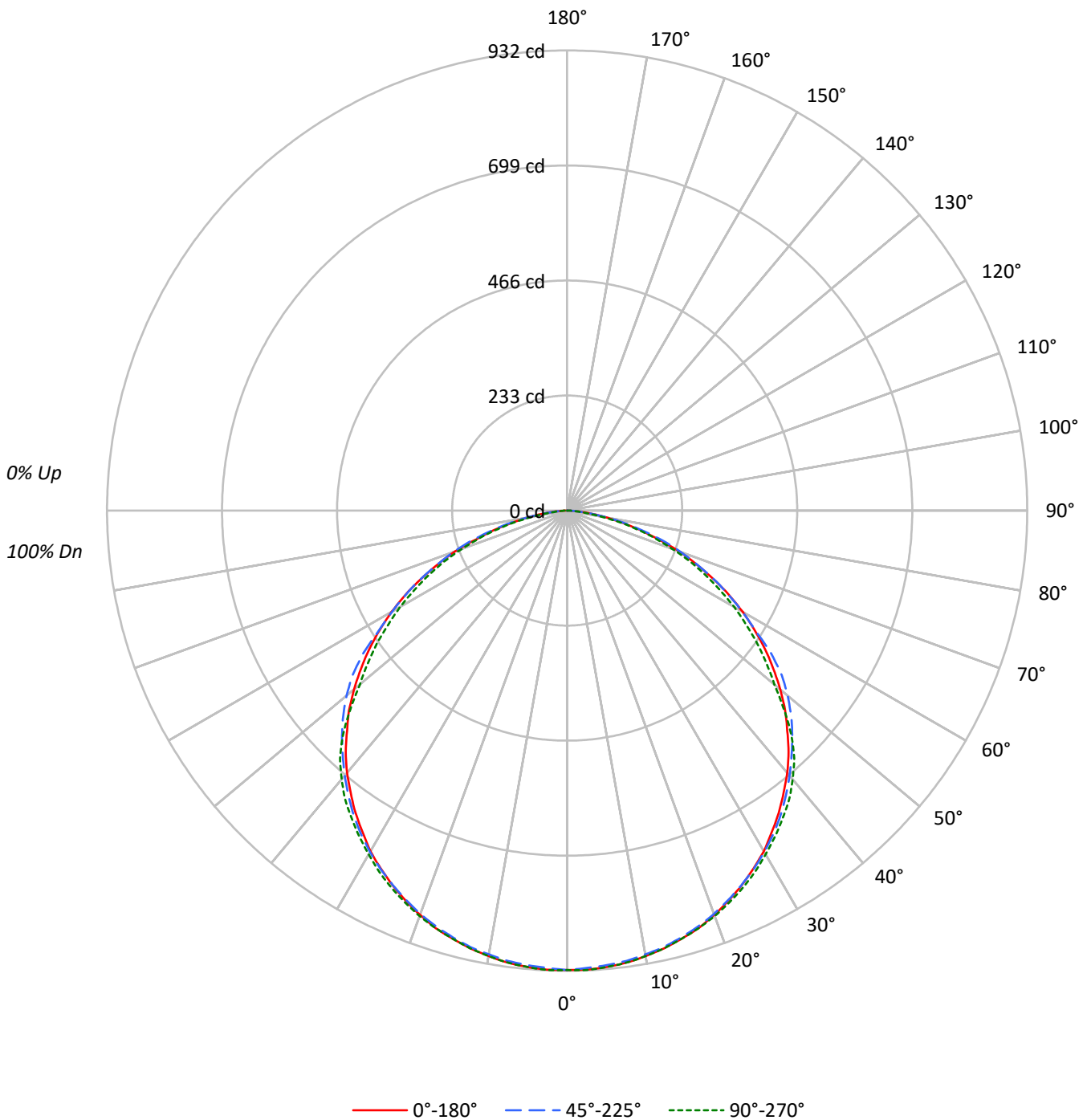
Input Watts (W): 36.735  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P259206

CATALOG NUMBER: 14CZ-LD5-44-SQP-UNV-L92765-W2A1-U-5700K

### Luminous Intensity Polar Plot





TEST NUMBER: P259206

CATALOG NUMBER: 14CZ-LD5-44-SQP-UNV-L92765-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	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	62	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	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	27	38	31	26	37	31	26	36	30	26	24

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

	0°	45°	90°
0°	2504	2504	2504
5°	2506	2497	2506
10°	2504	2494	2504
15°	2500	2493	2500
20°	2495	2490	2503
25°	2486	2483	2502
30°	2476	2481	2498
35°	2455	2476	2500
40°	2436	2461	2496
45°	2400	2455	2444
50°	2358	2441	2294
55°	2297	2364	2208
60°	2209	2204	2103
65°	2071	2082	1968
70°	1901	1922	1781
75°	1597	1672	1522
80°	1266	1294	1072
85°	831	722	611



TEST NUMBER: P259206

CATALOG NUMBER: 14CZ-LD5-44-SQP-UNV-L92765-W2A1-U-5700K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.1	3.3
10°-20°	253.3	9.6
20°-30°	386.8	14.6
30°-40°	471.9	17.8
40°-50°	493.5	18.6
50°-60°	436.9	16.5
60°-70°	321.7	12.1
70°-80°	166.6	6.3
80°-90°	33.2	1.3
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°	728.2	27.5
0°-40°	1200.1	45.3
0°-60°	2130.5	80.3
0°-90°	2652.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2652.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	931	931	931	931	931	
5°	928	928	924	928	928	88
15°	897	897	895	898	897	253
25°	837	837	836	842	843	386
35°	747	749	754	761	761	467
45°	631	636	645	650	642	487
55°	490	500	504	478	471	437
65°	325	345	327	314	309	322
75°	154	164	161	151	146	164
85°	27	29	23	21	20	35
90°	0	0	0	0	0	



TEST NUMBER: P259206

CATALOG NUMBER: 14CZ-LD5-44-SQP-UNV-L92765-W2A1-U-5700K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	930.6	930.6	930.6	930.6	930.6
2.5°	930.6	930.6	927.0	930.6	931.5
5°	927.9	927.9	924.3	927.9	927.9
7.5°	923.4	922.5	919.9	923.4	923.4
10°	916.3	916.3	912.7	917.2	916.3
12.5°	908.2	907.3	905.5	909.1	908.2
15°	897.4	897.4	894.7	898.3	897.4
17.5°	886.6	885.7	883.0	886.6	886.6
20°	871.3	870.4	869.5	873.1	874.0
22.5°	855.2	854.3	853.4	858.8	858.8
25°	837.2	837.2	836.3	841.7	842.6
27.5°	817.4	817.4	818.3	825.5	824.6
30°	796.8	796.8	798.6	804.0	804.0
32.5°	771.6	773.4	777.0	783.3	783.3
35°	747.4	749.2	753.7	760.9	760.9
37.5°	720.4	723.1	727.6	736.6	738.4
40°	693.5	695.3	700.7	710.6	710.6
42.5°	663.8	665.6	672.8	682.7	680.9
45°	630.6	636.0	645.0	650.4	642.3
47.5°	599.2	602.8	615.3	609.0	595.6
50°	563.2	570.4	583.0	560.5	548.0
52.5°	526.4	534.5	548.0	516.5	509.3
55°	489.6	499.5	503.9	477.9	470.7
57.5°	450.0	460.8	451.8	436.6	429.4
60°	410.5	423.1	409.6	395.2	390.8
62.5°	369.2	383.6	368.3	355.7	349.4
65°	325.2	344.9	327.0	314.4	309.0
67.5°	282.1	302.7	283.9	273.1	269.5
70°	241.6	253.3	244.3	233.6	226.4
72.5°	193.1	204.8	203.0	191.3	186.8
75°	153.6	164.4	160.8	150.9	146.4
77.5°	114.1	125.8	122.2	110.5	108.7
80°	81.7	89.8	83.5	72.8	69.2
82.5°	51.2	57.5	49.4	41.3	39.5
85°	26.9	28.7	23.4	20.7	19.8
87.5°	9.0	9.9	9.9	9.0	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)