

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: P259204

Luminaire Tested: **14CZ-LD5-44-SQP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P259204  
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-5000K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER  
WITH SQP LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2600.0 lumens  
Efficiency: N/A  
Efficacy: 71.3 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

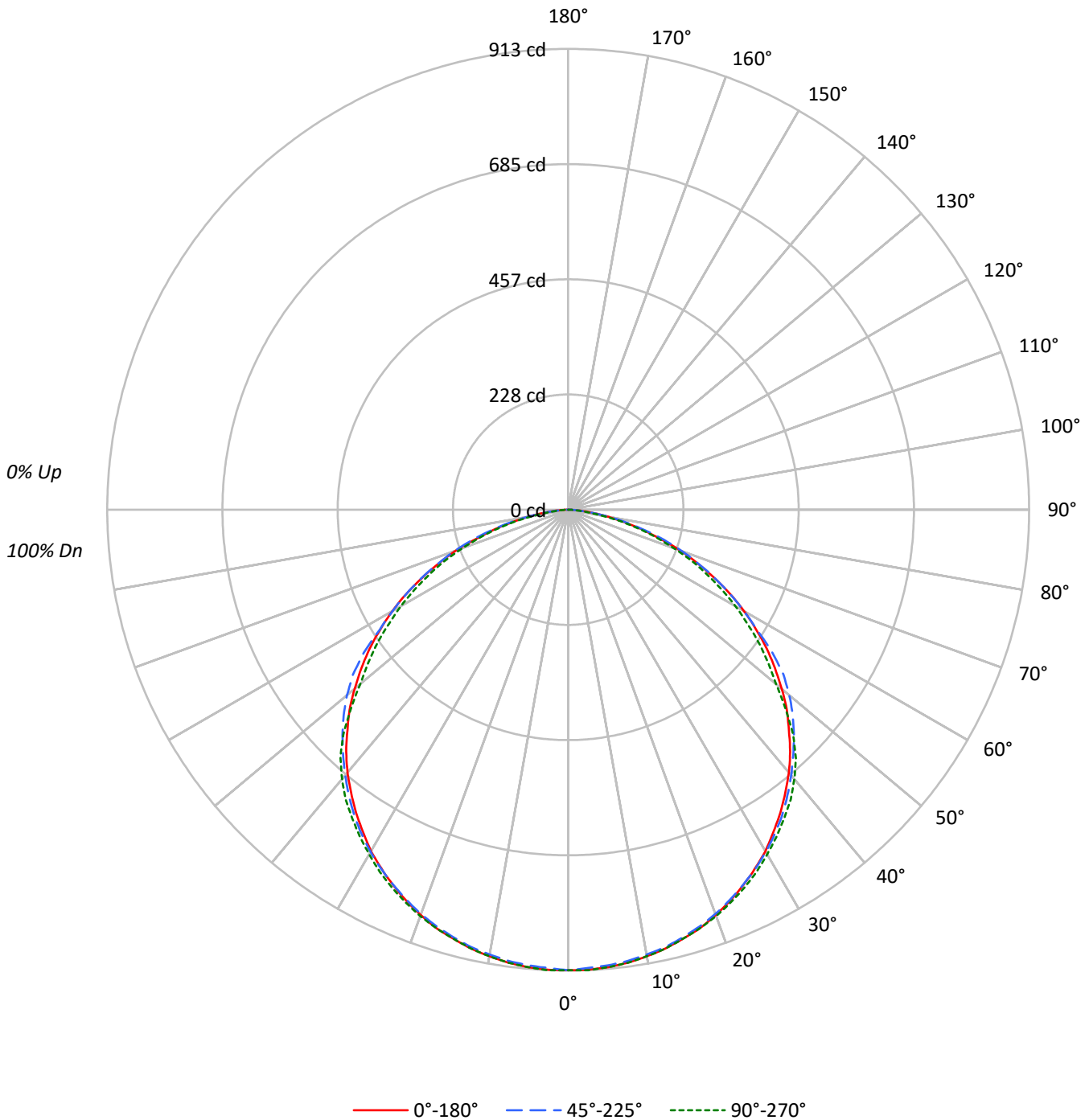
Input Watts (W): 36.456  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P259204

CATALOG NUMBER: 14CZ-LD5-44-SQP-UNV-L92765-W2A1-U-5000K

### Luminous Intensity Polar Plot





TEST NUMBER: P259204

CATALOG NUMBER: 14CZ-LD5-44-SQP-UNV-L92765-W2A1-U-5000K

**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°	2455	2455	2455
5°	2457	2448	2457
10°	2455	2445	2455
15°	2451	2444	2451
20°	2446	2441	2454
25°	2437	2434	2453
30°	2427	2433	2449
35°	2407	2427	2450
40°	2388	2413	2447
45°	2353	2406	2396
50°	2312	2393	2249
55°	2252	2318	2165
60°	2166	2161	2062
65°	2030	2041	1929
70°	1864	1884	1746
75°	1566	1639	1493
80°	1241	1269	1051
85°	815	707	599



TEST NUMBER: P259204

CATALOG NUMBER: 14CZ-LD5-44-SQP-UNV-L92765-W2A1-U-5000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.4	3.3
10°-20°	248.3	9.6
20°-30°	379.2	14.6
30°-40°	462.7	17.8
40°-50°	483.8	18.6
50°-60°	428.3	16.5
60°-70°	315.4	12.1
70°-80°	163.3	6.3
80°-90°	32.5	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°	713.9	27.5
0°-40°	1176.6	45.3
0°-60°	2088.8	80.3
0°-90°	2600.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2600.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	912	912	912	912	912	
5°	910	910	906	910	910	86
15°	880	880	877	881	880	249
25°	821	821	820	825	826	378
35°	733	734	739	746	746	458
45°	618	624	632	638	630	477
55°	480	490	494	468	462	428
65°	319	338	321	308	303	316
75°	151	161	158	148	144	161
85°	26	28	23	20	19	34
90°	0	0	0	0	0	



TEST NUMBER: P259204

CATALOG NUMBER: 14CZ-LD5-44-SQP-UNV-L92765-W2A1-U-5000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	912.4	912.4	912.4	912.4	912.4
2.5°	912.4	912.4	908.9	912.4	913.3
5°	909.7	909.7	906.2	909.7	909.7
7.5°	905.3	904.5	901.8	905.3	905.3
10°	898.3	898.3	894.8	899.2	898.3
12.5°	890.4	889.5	887.7	891.2	890.4
15°	879.8	879.8	877.2	880.7	879.8
17.5°	869.2	868.4	865.7	869.2	869.2
20°	854.3	853.4	852.5	856.0	856.9
22.5°	838.4	837.5	836.6	841.9	841.9
25°	820.8	820.8	819.9	825.2	826.1
27.5°	801.4	801.4	802.3	809.3	808.5
30°	781.2	781.2	782.9	788.2	788.2
32.5°	756.5	758.3	761.8	768.0	768.0
35°	732.7	734.5	738.9	745.9	745.9
37.5°	706.3	708.9	713.4	722.2	723.9
40°	679.9	681.6	686.9	696.6	696.6
42.5°	650.8	652.6	659.6	669.3	667.6
45°	618.2	623.5	632.3	637.6	629.7
47.5°	587.4	590.9	603.3	597.1	583.9
50°	552.2	559.2	571.6	549.5	537.2
52.5°	516.1	524.0	537.2	506.4	499.3
55°	480.0	489.7	494.1	468.5	461.5
57.5°	441.2	451.8	443.0	428.0	421.0
60°	402.5	414.8	401.6	387.5	383.1
62.5°	362.0	376.1	361.1	348.7	342.6
65°	318.8	338.2	320.6	308.2	303.0
67.5°	276.5	296.8	278.3	267.7	264.2
70°	236.9	248.4	239.5	229.0	221.9
72.5°	189.3	200.8	199.0	187.6	183.2
75°	150.6	161.2	157.6	148.0	143.6
77.5°	111.8	123.3	119.8	108.3	106.6
80°	80.1	88.1	81.9	71.3	67.8
82.5°	50.2	56.4	48.4	40.5	38.7
85°	26.4	28.2	22.9	20.3	19.4
87.5°	8.8	9.7	9.7	8.8	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)