

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: P258675

Luminaire Tested: **14CZ-LD5-29-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258675  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35573)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ-LD5-29-UNV-L92765-W2A1-U-5700K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2772.0 lumens  
Efficiency: N/A  
Efficacy: 121.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

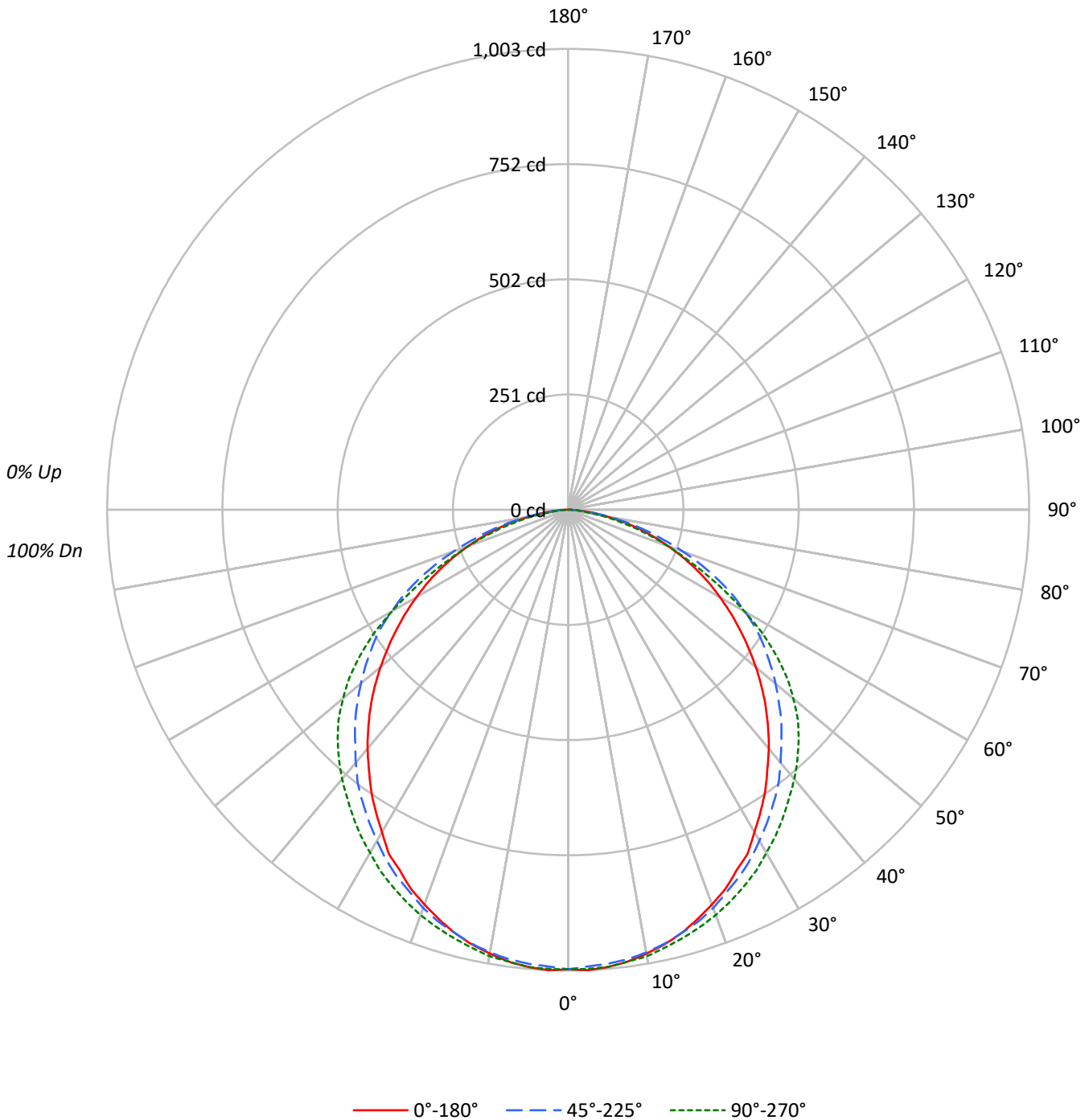
Input Watts (W): 22.785  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P258675

CATALOG NUMBER: 14CZ-LD5-29-UNV-L92765-W2A1-U-5700K

### Luminous Intensity Polar Plot





TEST NUMBER: P258675

CATALOG NUMBER: 14CZ-LD5-29-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	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

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

	0°	45°	90°
0°	2692	2692	2692
5°	2699	2680	2699
10°	2681	2674	2696
15°	2657	2657	2688
20°	2618	2641	2688
25°	2572	2617	2686
30°	2518	2586	2679
35°	2456	2559	2680
40°	2386	2525	2688
45°	2314	2496	2699
50°	2231	2466	2678
55°	2141	2443	2590
60°	2052	2390	2383
65°	1958	2288	2089
70°	1817	2086	1806
75°	1648	1818	1492
80°	1313	1440	1102
85°	929	803	633



TEST NUMBER: P258675

CATALOG NUMBER: 14CZ-LD5-29-UNV-L92765-W2A1-U-5700K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.7	3.4
10°-20°	270.4	9.8
20°-30°	407.7	14.7
30°-40°	488.7	17.6
40°-50°	507.1	18.3
50°-60°	457.4	16.5
60°-70°	333.7	12.0
70°-80°	175.1	6.3
80°-90°	37.4	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°	772.7	27.9
0°-40°	1261.4	45.5
0°-60°	2225.9	80.3
0°-90°	2772.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2772.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1000	1000	1000	1000	1000	
5°	999	996	992	999	999	95
15°	954	954	954	965	965	269
25°	866	870	881	901	905	400
35°	748	756	779	808	816	467
45°	608	620	656	696	709	469
55°	456	473	521	555	552	409
65°	308	325	359	346	328	304
75°	158	180	175	152	144	166
85°	30	37	26	22	20	38
90°	0	0	0	0	0	



TEST NUMBER: P258675

CATALOG NUMBER: 14CZ-LD5-29-UNV-L92765-W2A1-U-5700K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1000.3	1000.3	1000.3	1000.3	1000.3
2.5°	1003.1	1000.3	994.9	1000.3	1000.3
5°	999.0	996.2	992.1	999.0	999.0
7.5°	992.1	989.4	986.7	993.5	992.1
10°	981.2	979.8	978.5	986.7	986.7
12.5°	968.9	968.9	967.5	977.1	975.7
15°	953.9	953.9	953.9	964.8	964.8
17.5°	934.7	937.5	940.2	952.5	952.5
20°	914.2	917.0	922.4	937.5	938.8
22.5°	893.7	895.1	900.6	918.3	922.4
25°	866.4	870.5	881.4	900.6	904.7
27.5°	844.5	845.9	858.2	880.1	885.5
30°	810.4	819.9	832.2	856.8	862.3
32.5°	779.0	787.1	806.3	832.2	840.4
35°	747.5	755.7	779.0	807.6	815.8
37.5°	712.0	724.3	751.6	780.3	789.9
40°	679.2	690.1	718.8	754.4	765.3
42.5°	643.7	654.6	686.0	725.7	738.0
45°	608.1	620.4	656.0	695.6	709.3
47.5°	571.2	584.9	621.8	665.5	677.8
50°	533.0	548.0	589.0	634.1	639.6
52.5°	494.7	511.1	554.8	594.5	599.9
55°	456.4	472.8	520.7	554.8	552.1
57.5°	419.5	437.3	486.5	504.3	501.5
60°	381.3	400.4	444.1	452.3	442.8
62.5°	345.7	363.5	404.5	397.7	385.4
65°	307.5	325.2	359.4	345.7	328.0
67.5°	269.2	291.1	312.9	289.7	276.0
70°	231.0	255.6	265.1	241.9	229.6
72.5°	194.1	220.0	217.3	194.1	185.9
75°	158.5	180.4	174.9	151.7	143.5
77.5°	120.3	144.9	132.6	113.4	106.6
80°	84.7	106.6	92.9	76.5	71.1
82.5°	56.0	71.1	57.4	45.1	41.0
85°	30.1	36.9	26.0	21.9	20.5
87.5°	12.3	10.9	9.6	9.6	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)