

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: P259034

Luminaire Tested: **14CZ-LD5-44-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P259034  
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-LD5-44-RDP-UNV-L92765-W2A1-U-4000K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2583.0 lumens  
Efficiency: N/A  
Efficacy: 71.8 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

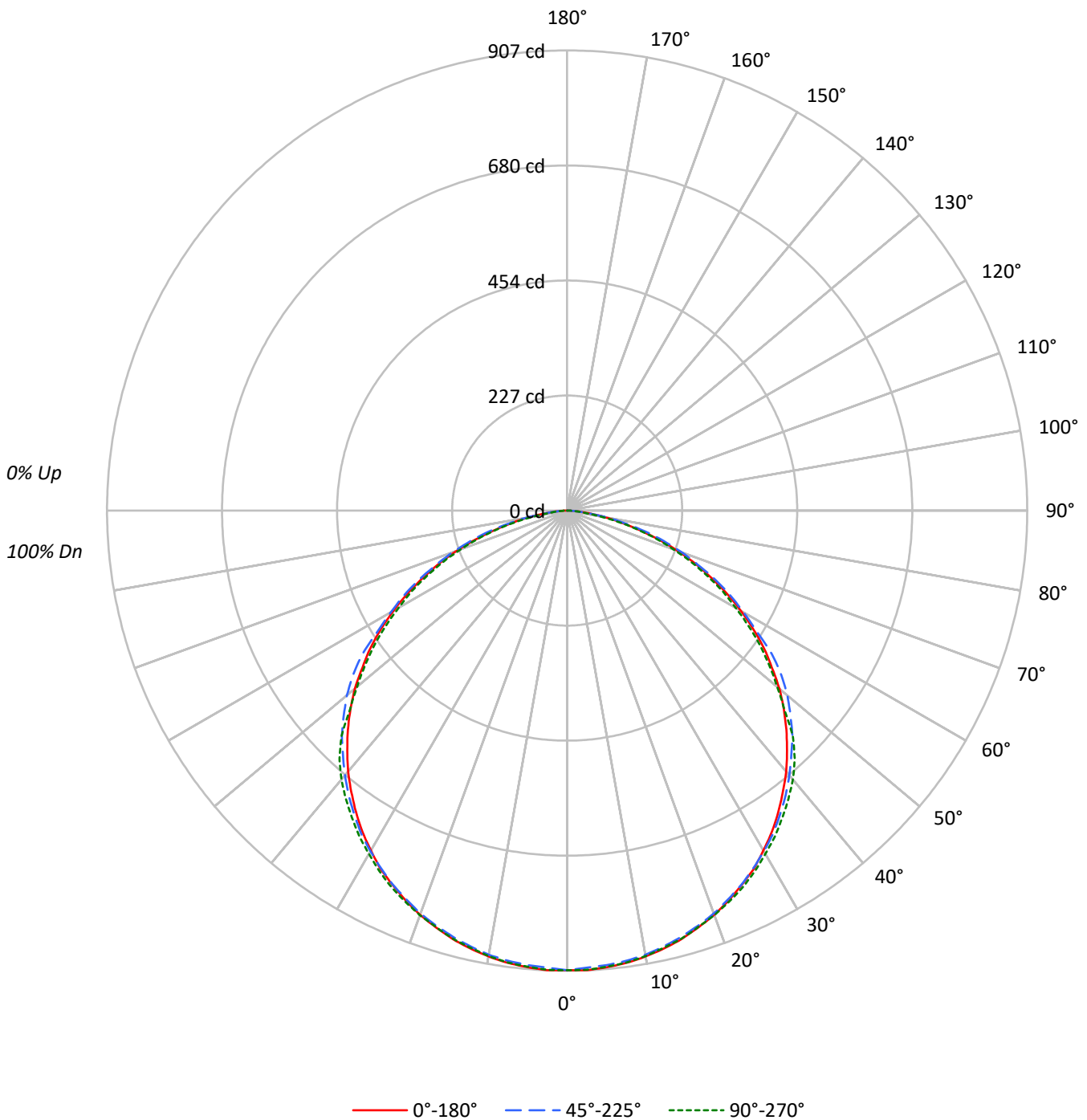
Input Watts (W): 35.991  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P259034

CATALOG NUMBER: 14CZ-LD5-44-RDP-UNV-L92765-W2A1-U-4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P259034

CATALOG NUMBER: 14CZ-LD5-44-RDP-UNV-L92765-W2A1-U-4000K

**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°	2438	2438	2438
5°	2440	2429	2438
10°	2438	2429	2436
15°	2435	2423	2432
20°	2428	2421	2430
25°	2417	2415	2432
30°	2404	2409	2428
35°	2384	2403	2428
40°	2360	2393	2431
45°	2326	2390	2393
50°	2287	2372	2263
55°	2224	2311	2180
60°	2130	2161	2066
65°	1994	2048	1941
70°	1815	1888	1755
75°	1514	1654	1488
80°	1201	1266	1031
85°	781	676	599



TEST NUMBER: P259034

CATALOG NUMBER: 14CZ-LD5-44-RDP-UNV-L92765-W2A1-U-4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.8	3.3
10°-20°	246.3	9.5
20°-30°	376.0	14.6
30°-40°	458.4	17.7
40°-50°	480.0	18.6
50°-60°	427.0	16.5
60°-70°	315.1	12.2
70°-80°	162.8	6.3
80°-90°	31.6	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°	708.1	27.4
0°-40°	1166.5	45.2
0°-60°	2073.5	80.3
0°-90°	2583.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2583.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	906	906	906	906	906	
5°	903	902	899	902	902	86
15°	874	873	870	873	873	247
25°	814	814	813	819	819	375
35°	726	726	732	740	739	454
45°	611	615	628	634	629	471
55°	474	484	492	472	465	422
65°	313	335	322	311	305	310
75°	146	161	159	146	143	157
85°	25	28	22	20	19	33
90°	0	0	0	0	0	



TEST NUMBER: P259034

CATALOG NUMBER: 14CZ-LD5-44-RDP-UNV-L92765-W2A1-U-4000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	905.9	905.9	905.9	905.9	905.9
2.5°	906.7	905.9	901.7	905.9	905.9
5°	903.3	902.5	899.1	902.5	902.5
7.5°	899.1	898.3	894.9	898.3	898.3
10°	892.4	891.6	889.0	892.4	891.6
12.5°	884.0	884.0	879.8	884.0	882.3
15°	873.9	873.0	869.7	873.0	873.0
17.5°	861.2	860.4	857.9	862.1	860.4
20°	847.8	846.9	845.3	849.5	848.6
22.5°	831.8	831.8	829.3	834.3	834.3
25°	814.1	814.1	813.3	819.2	819.2
27.5°	796.4	794.7	794.7	800.6	801.5
30°	773.7	773.7	775.4	782.1	781.3
32.5°	751.0	751.8	755.2	761.1	761.9
35°	725.7	726.5	731.6	740.0	739.2
37.5°	698.8	701.3	707.2	716.4	716.4
40°	671.8	673.5	681.1	691.2	692.0
42.5°	641.5	645.7	654.1	665.9	664.2
45°	611.2	615.4	628.0	633.9	628.9
47.5°	579.2	584.3	596.9	597.7	580.9
50°	546.4	552.3	566.6	549.8	540.5
52.5°	508.5	519.4	532.1	508.5	502.6
55°	474.0	484.1	492.5	471.5	464.7
57.5°	435.3	448.7	442.8	432.7	424.3
60°	395.7	410.0	401.6	391.5	383.9
62.5°	355.3	371.3	362.9	352.7	346.0
65°	313.2	335.1	321.6	310.7	304.8
67.5°	273.6	294.7	278.7	270.2	264.4
70°	230.7	248.4	239.9	229.0	223.1
72.5°	188.6	202.1	199.5	187.7	183.5
75°	145.6	160.8	159.1	146.5	143.1
77.5°	109.4	123.8	118.7	108.6	104.4
80°	77.5	86.7	81.7	69.9	66.5
82.5°	47.1	54.7	46.3	39.6	36.2
85°	25.3	27.8	21.9	20.2	19.4
87.5°	9.3	9.3	9.3	8.4	8.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)