

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: P260474

Luminaire Tested: **22CZ-LD5-34-RDP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260474  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25714)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ-LD5-34-RDP-UNV-L82765-W2A1-U-4000K  
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2528.0 lumens  
Efficiency: N/A  
Efficacy: 97.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

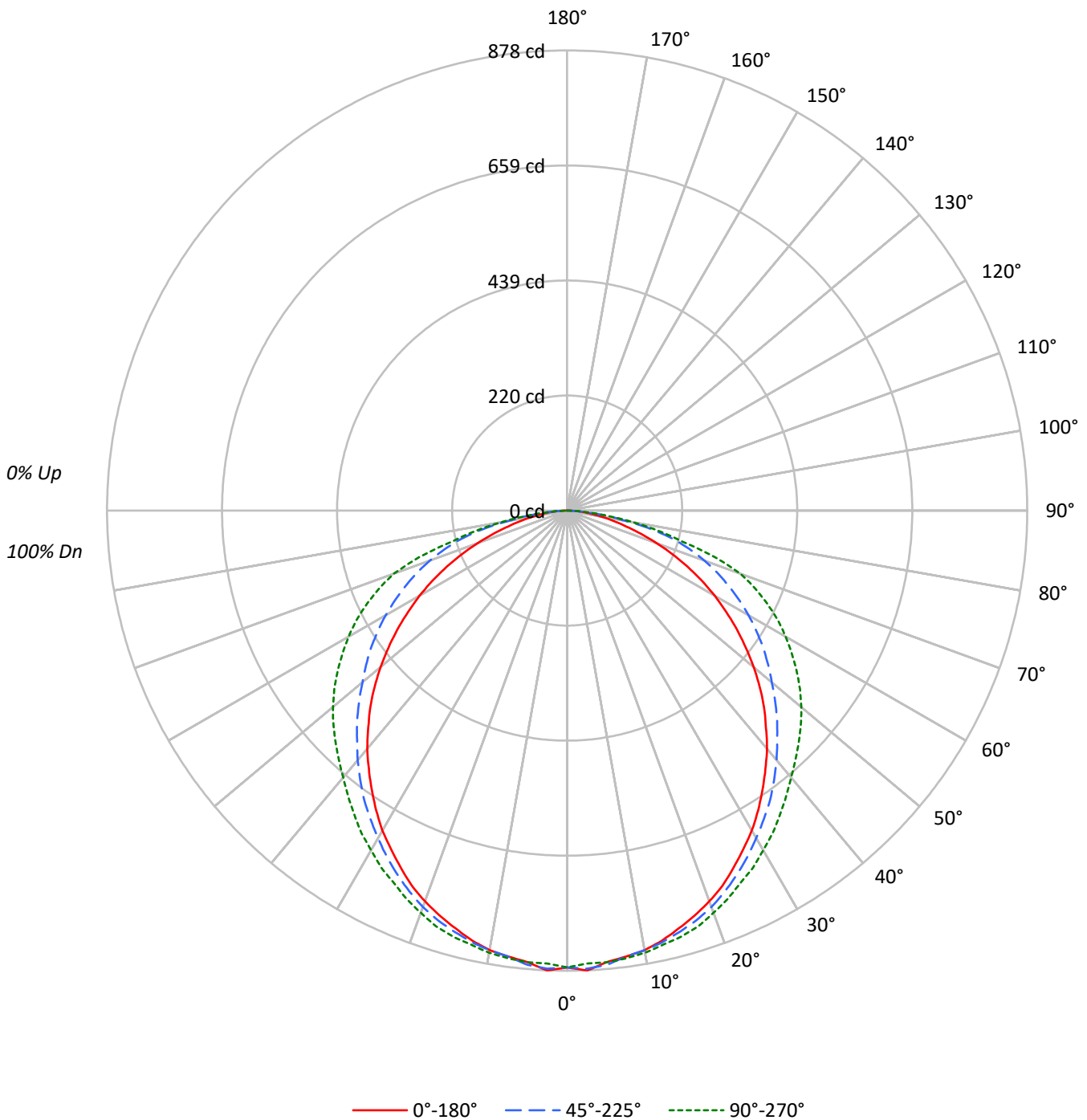
Input Watts (W): 25.947  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P260474

CATALOG NUMBER: 22CZ-LD5-34-RDP-UNV-L82765-W2A1-U-4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P260474

CATALOG NUMBER: 22CZ-LD5-34-RDP-UNV-L82765-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	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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	81	76	84	79	74	81	77	73	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57					57			
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	37	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23					23			

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

	0°	45°	90°
0°	2345	2345	2345
5°	2336	2350	2336
10°	2327	2327	2341
15°	2298	2317	2345
20°	2271	2305	2338
25°	2232	2276	2325
30°	2190	2242	2325
35°	2135	2217	2326
40°	2084	2184	2336
45°	2023	2156	2378
50°	1946	2135	2442
55°	1853	2142	2510
60°	1749	2153	2592
65°	1613	2165	2684
70°	1429	2190	2766
75°	1213	2183	2356
80°	1007	1756	1963
85°	874	1183	1133



TEST NUMBER: P260474

CATALOG NUMBER: 22CZ-LD5-34-RDP-UNV-L82765-W2A1-U-4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.3	3.3
10°-20°	234.9	9.3
20°-30°	353.4	14.0
30°-40°	423.5	16.8
40°-50°	441.6	17.5
50°-60°	411.2	16.3
60°-70°	333.9	13.2
70°-80°	201.2	8.0
80°-90°	46.1	1.8
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°	670.6	26.5
0°-40°	1094.1	43.3
0°-60°	1946.8	77.0
0°-90°	2528.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2528.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	872	872	872	872	872	
5°	865	865	870	872	865	82
15°	825	828	832	837	842	233
25°	752	757	767	777	783	346
35°	650	658	675	695	708	407
45°	532	542	567	603	625	409
55°	395	412	457	507	535	353
65°	253	280	340	393	422	251
75°	117	155	210	223	227	126
85°	28	35	38	37	37	33
90°	0	0	0	0	0	



TEST NUMBER: P260474

CATALOG NUMBER: 22CZ-LD5-34-RDP-UNV-L82765-W2A1-U-4000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	871.6	871.6	871.6	871.6	871.6
2.5°	878.2	876.6	874.9	869.9	864.9
5°	864.9	864.9	869.9	871.6	864.9
7.5°	858.2	858.2	858.2	864.9	861.6
10°	851.6	851.6	851.6	856.6	856.6
12.5°	839.9	841.6	843.2	844.9	848.2
15°	824.9	828.2	831.6	836.6	841.6
17.5°	809.9	813.2	819.9	824.9	831.6
20°	793.2	796.6	804.9	809.9	816.6
22.5°	774.9	776.6	786.6	793.2	801.6
25°	751.6	756.6	766.6	776.6	783.2
27.5°	728.2	733.2	744.9	758.2	768.2
30°	704.9	709.9	721.6	738.2	748.2
32.5°	678.2	684.9	698.2	718.2	729.9
35°	649.9	658.3	674.9	694.9	708.2
37.5°	621.6	629.9	648.3	673.3	686.6
40°	593.3	601.6	621.6	648.3	664.9
42.5°	561.6	571.6	593.3	624.9	644.9
45°	531.6	541.6	566.6	603.3	624.9
47.5°	498.3	509.9	538.3	579.9	604.9
50°	464.9	478.3	509.9	556.6	583.3
52.5°	429.9	444.9	483.3	531.6	559.9
55°	395.0	411.6	456.6	506.6	534.9
57.5°	360.0	378.3	428.3	479.9	508.3
60°	325.0	345.0	400.0	453.3	481.6
62.5°	290.0	311.6	370.0	423.3	453.3
65°	253.3	280.0	340.0	393.3	421.6
67.5°	216.6	248.3	310.0	361.6	388.3
70°	181.6	216.6	278.3	326.6	351.6
72.5°	148.3	185.0	245.0	286.6	296.6
75°	116.7	155.0	210.0	223.3	226.6
77.5°	90.0	125.0	166.6	170.0	178.3
80°	65.0	95.0	113.3	123.3	126.7
82.5°	45.0	65.0	75.0	76.7	78.3
85°	28.3	35.0	38.3	36.7	36.7
87.5°	15.0	13.3	11.7	8.3	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)