

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: P276973

Luminaire Tested: **24CZ2-30-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P276973  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-30-RDP-UNV-L82765-W2A1-U-3000K  
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1821.6 lumens  
Efficiency: N/A  
Efficacy: 84.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

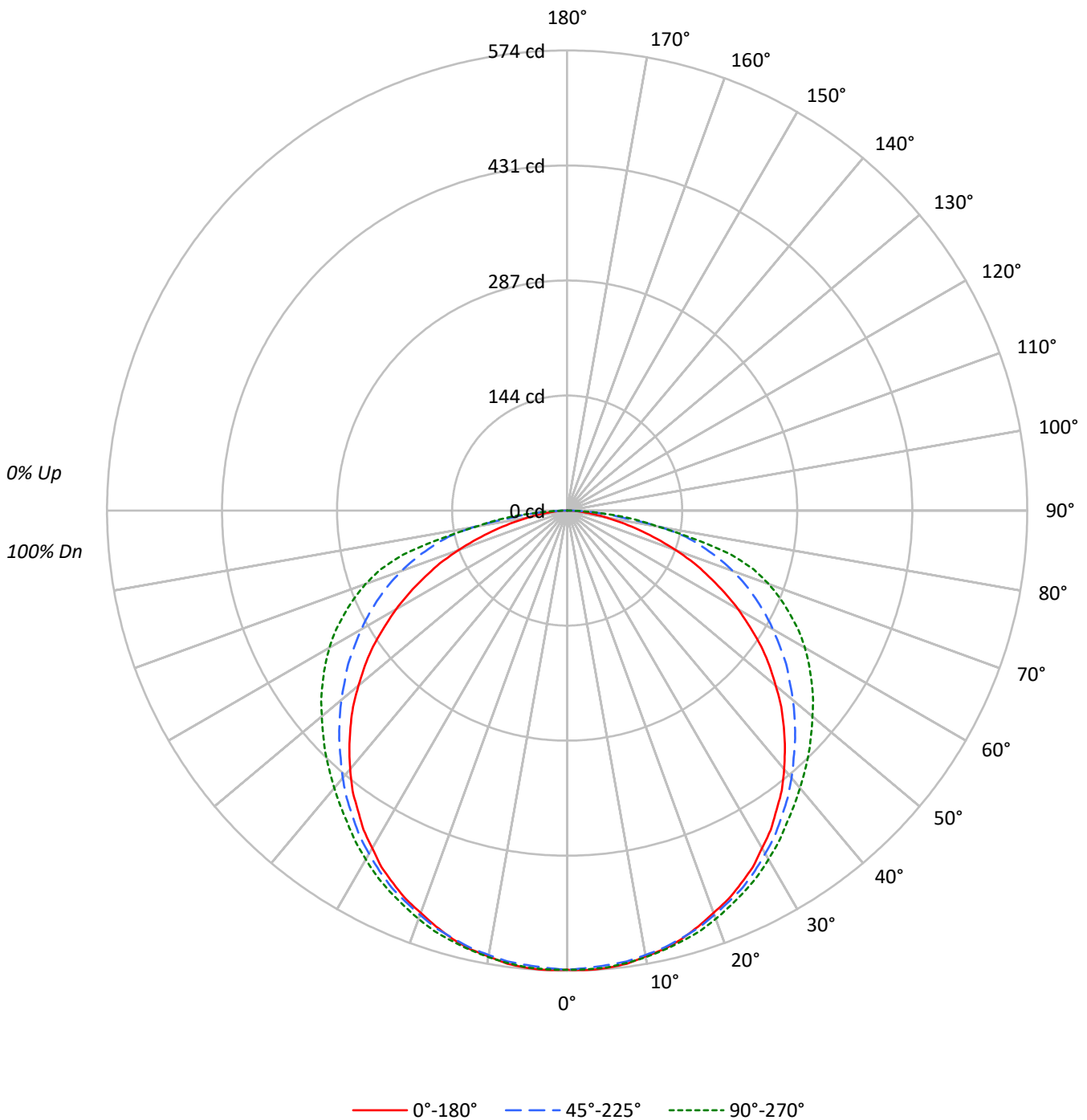
Input Watts (W): 21.576  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P276973

CATALOG NUMBER: 24CZ2-30-RDP-UNV-L82765-W2A1-U-3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P276973

CATALOG NUMBER: 24CZ2-30-RDP-UNV-L82765-W2A1-U-3000K

**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	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

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

	0°	45°	90°
0°	771	771	771
5°	774	769	772
10°	772	769	773
15°	770	769	774
20°	765	768	776
25°	762	770	778
30°	755	768	781
35°	748	766	784
40°	739	765	794
45°	727	765	812
50°	711	770	836
55°	693	782	873
60°	664	798	921
65°	621	826	978
70°	565	864	1052
75°	479	911	1099
80°	378	917	889
85°	279	698	781



TEST NUMBER: P276973

CATALOG NUMBER: 24CZ2-30-RDP-UNV-L82765-W2A1-U-3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.3	3.0
10°-20°	156.4	8.6
20°-30°	239.1	13.1
30°-40°	292.4	16.0
40°-50°	311.6	17.1
50°-60°	297.9	16.4
60°-70°	252.4	13.9
70°-80°	169.6	9.3
80°-90°	47.8	2.6
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°	449.9	24.7
0°-40°	742.2	40.7
0°-60°	1351.7	74.2
0°-90°	1821.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1821.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	573	573	573	573	573	
5°	573	572	569	572	572	54
15°	553	553	552	557	556	156
25°	513	515	519	523	524	237
35°	455	459	466	475	477	285
45°	382	388	402	419	426	295
55°	296	306	333	360	372	263
65°	195	215	259	294	307	194
75°	92	126	175	205	211	99
85°	18	37	45	49	51	22
90°	0	0	0	0	0	



TEST NUMBER: P276973

CATALOG NUMBER: 24CZ2-30-RDP-UNV-L82765-W2A1-U-3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	572.8	572.8	572.8	572.8	572.8
2.5°	573.7	573.7	571.0	572.8	572.8
5°	572.8	571.9	569.2	571.9	571.9
7.5°	570.1	569.2	567.4	570.1	569.2
10°	564.7	564.7	562.9	565.6	565.6
12.5°	560.2	559.3	558.4	562.0	561.1
15°	553.0	553.0	552.1	556.6	555.7
17.5°	543.9	544.8	545.7	549.3	550.2
20°	534.0	535.8	536.7	542.1	542.1
22.5°	524.9	525.8	527.7	533.1	533.1
25°	513.2	515.0	518.6	523.1	524.0
27.5°	501.5	502.4	506.9	513.2	514.1
30°	486.1	488.8	494.2	501.5	502.4
32.5°	472.5	475.3	481.6	488.8	490.6
35°	455.4	459.0	466.2	475.3	477.1
37.5°	440.0	442.7	451.8	461.7	464.4
40°	421.0	426.5	435.5	447.2	451.8
42.5°	402.1	407.5	418.3	433.7	439.1
45°	382.2	388.5	402.1	419.2	426.5
47.5°	362.3	369.5	384.9	404.8	412.9
50°	339.7	348.8	367.7	390.3	399.4
52.5°	318.0	328.9	349.7	375.0	386.7
55°	295.5	306.3	333.4	359.6	372.2
57.5°	270.2	284.6	314.4	344.2	357.8
60°	246.7	260.2	296.4	328.9	342.4
62.5°	221.4	239.4	278.3	312.6	326.2
65°	195.2	215.0	259.3	293.6	307.2
67.5°	171.7	193.4	240.3	274.7	288.2
70°	143.7	170.8	219.6	253.9	267.4
72.5°	117.5	147.3	197.9	231.3	244.0
75°	92.2	125.6	175.3	205.1	211.4
77.5°	68.7	103.9	151.8	164.4	159.9
80°	48.8	83.1	118.4	112.0	114.7
82.5°	31.6	63.2	73.2	83.1	85.8
85°	18.1	37.0	45.2	48.8	50.6
87.5°	8.1	13.6	18.1	18.1	17.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)