

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: P276273

Luminaire Tested: **24CZ2-30-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P276273  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-5)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-30-UNV-L92765-W2A1-U-5500K  
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER  
WITH RIBBED LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2693.3 lumens  
Efficiency: N/A  
Efficacy: 120.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

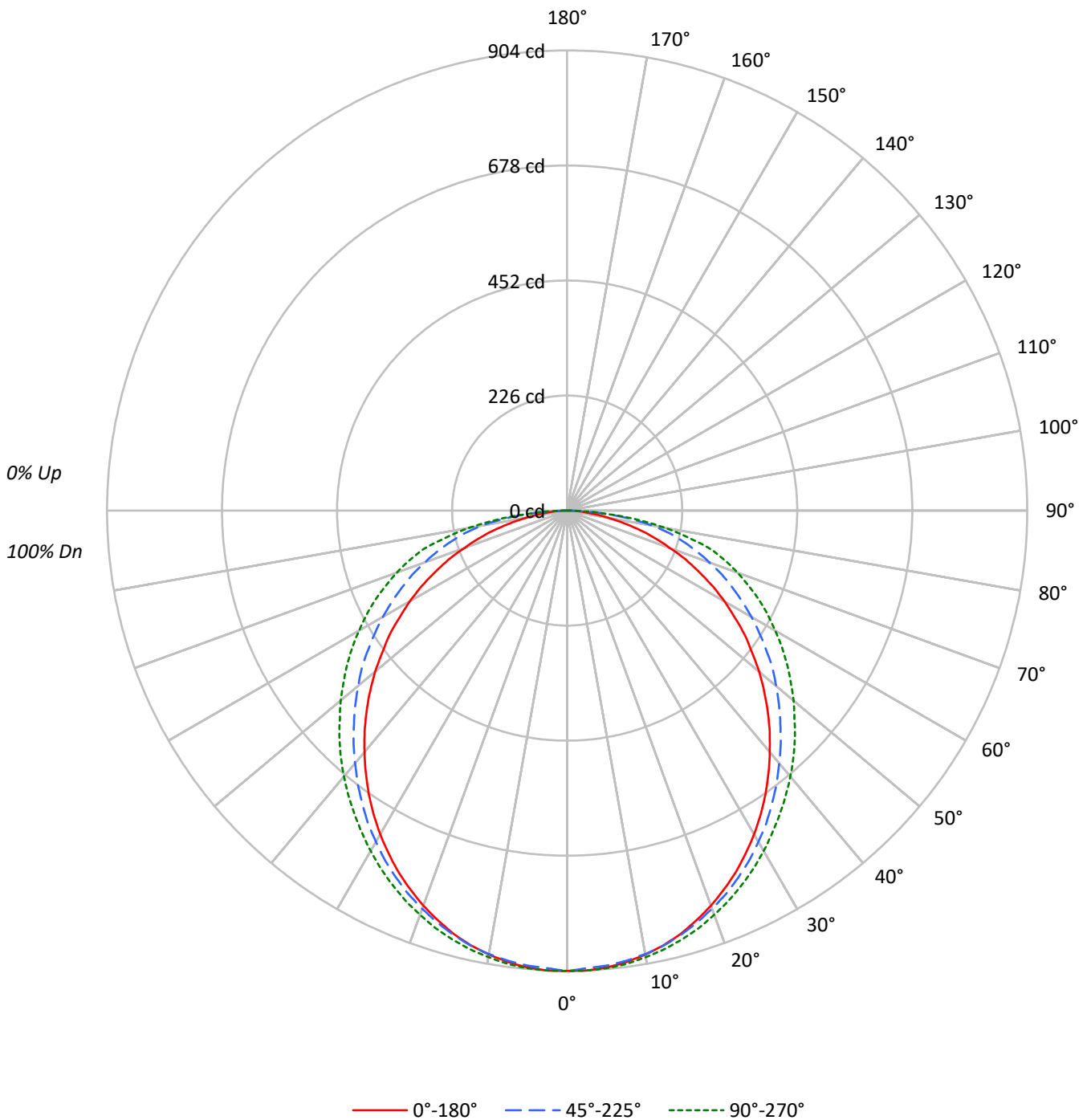
Input Watts (W): 22.413  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P276273

CATALOG NUMBER: 24CZ2-30-UNV-L92765-W2A1-U-5500K

### Luminous Intensity Polar Plot





TEST NUMBER: P276273

CATALOG NUMBER: 24CZ2-30-UNV-L92765-W2A1-U-5500K

**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	89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

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

	0°	45°	90°
0°	1217	1217	1217
5°	1217	1212	1219
10°	1210	1208	1217
15°	1199	1202	1215
20°	1183	1192	1210
25°	1164	1181	1205
30°	1141	1167	1200
35°	1116	1153	1196
40°	1088	1138	1198
45°	1060	1127	1204
50°	1031	1121	1216
55°	1000	1120	1238
60°	960	1125	1270
65°	910	1142	1325
70°	845	1170	1400
75°	771	1229	1519
80°	634	1323	1519
85°	486	1221	1304



TEST NUMBER: P276273

CATALOG NUMBER: 24CZ2-30-UNV-L92765-W2A1-U-5500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.5	3.2
10°-20°	244.2	9.1
20°-30°	367.4	13.6
30°-40°	440.3	16.3
40°-50°	458.8	17.0
50°-60°	426.9	15.9
60°-70°	351.6	13.1
70°-80°	239.5	8.9
80°-90°	79.1	2.9
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°	697.1	25.9
0°-40°	1137.4	42.2
0°-60°	2023.1	75.1
0°-90°	2693.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2693.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	904	904	904	904	904	
5°	901	901	897	902	902	85
15°	861	862	863	871	872	243
25°	784	787	796	809	812	361
35°	680	688	702	721	728	425
45°	557	569	592	622	633	430
55°	426	440	477	515	528	380
65°	286	310	359	401	416	284
75°	148	182	236	279	292	156
85°	32	61	79	84	84	39
90°	0	0	0	0	0	



TEST NUMBER: P276273

CATALOG NUMBER: 24CZ2-30-UNV-L92765-W2A1-U-5500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	904.3	904.3	904.3	904.3	904.3
2.5°	904.3	904.3	899.8	904.3	904.3
5°	900.7	900.7	897.1	901.6	902.5
7.5°	894.4	895.3	891.7	897.1	898.0
10°	885.4	886.3	884.5	889.9	890.8
12.5°	874.6	875.5	875.5	881.8	882.7
15°	861.1	862.0	862.9	871.0	871.9
17.5°	844.0	846.7	848.5	858.4	860.2
20°	826.1	828.7	832.3	843.1	844.9
22.5°	805.4	809.0	815.3	827.0	829.6
25°	783.8	787.4	795.5	809.0	811.7
27.5°	759.5	764.9	774.8	789.2	792.8
30°	734.4	739.8	751.4	766.7	772.1
32.5°	707.4	714.6	728.1	745.2	750.5
35°	679.5	687.6	702.0	720.9	728.1
37.5°	649.9	658.9	675.9	696.6	705.6
40°	619.3	630.1	648.1	672.3	682.2
42.5°	588.8	598.6	621.1	647.2	658.0
45°	557.3	569.0	592.3	622.0	632.8
47.5°	524.9	536.6	564.5	595.9	605.8
50°	492.6	504.3	535.7	569.0	580.7
52.5°	457.5	472.8	508.8	542.0	553.7
55°	426.1	440.4	477.3	515.0	527.6
57.5°	390.1	407.2	447.6	487.2	500.7
60°	356.8	374.8	418.0	458.4	471.9
62.5°	322.7	342.5	388.3	429.7	444.9
65°	285.8	310.1	358.6	400.9	416.2
67.5°	252.6	277.7	329.0	372.1	385.6
70°	214.8	245.4	297.5	340.7	355.9
72.5°	182.5	213.0	267.9	310.1	325.4
75°	148.3	181.6	236.4	278.6	292.1
77.5°	114.2	151.0	205.8	238.2	242.7
80°	81.8	120.4	170.8	189.7	196.0
82.5°	57.5	92.6	125.8	138.4	142.0
85°	31.5	61.1	79.1	84.5	84.5
87.5°	13.5	26.1	31.5	32.4	33.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)