

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: P276137

Luminaire Tested: **24CZ2-30-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P276137  
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-L82765-W2A1-U-5000K  
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2954.4 lumens  
Efficiency: N/A  
Efficacy: 132.9 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

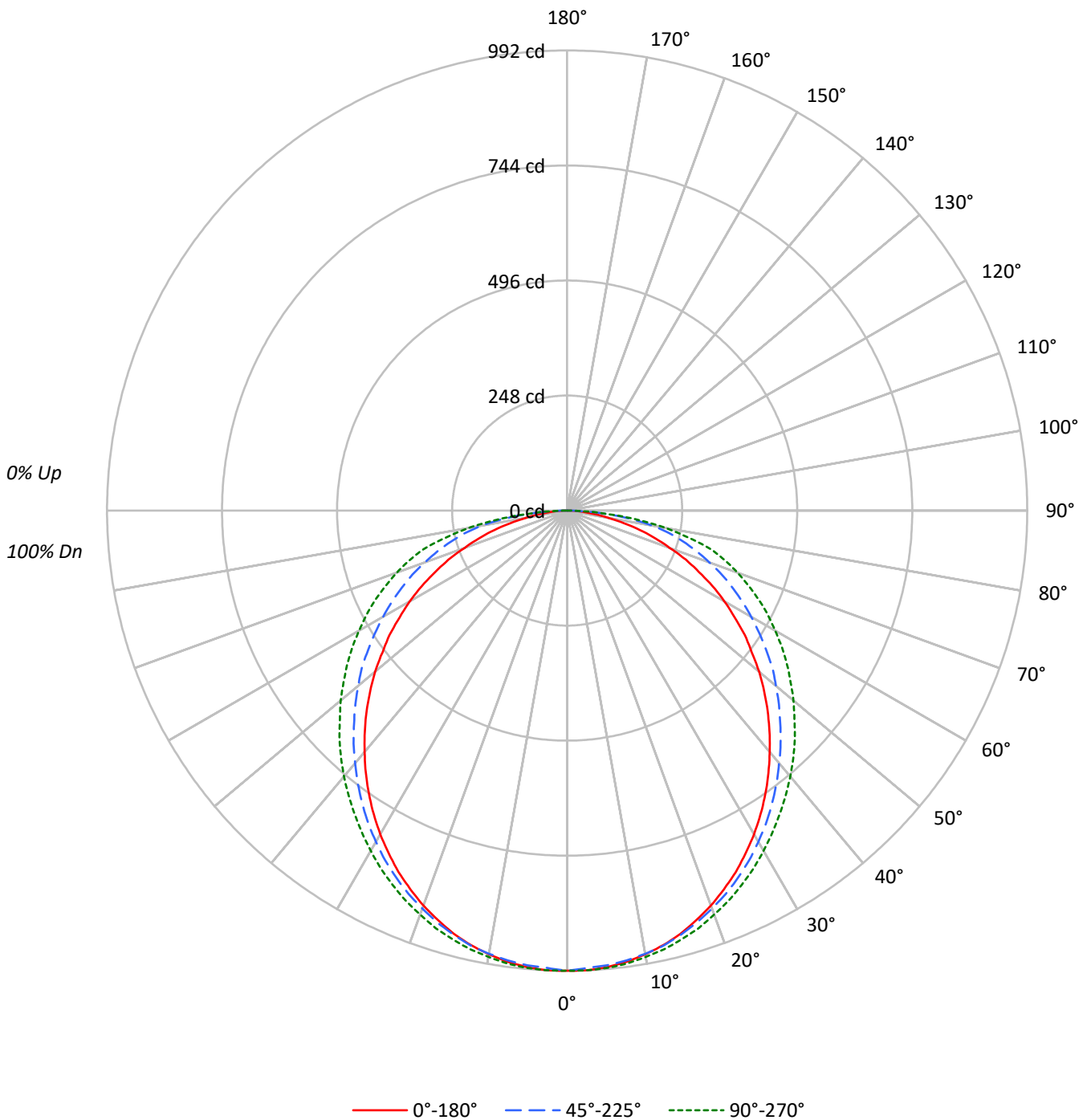
Input Watts (W): 22.227  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**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°	1335	1335	1335
5°	1334	1329	1337
10°	1327	1326	1335
15°	1316	1319	1332
20°	1297	1307	1327
25°	1276	1295	1322
30°	1252	1281	1316
35°	1224	1265	1312
40°	1193	1249	1314
45°	1163	1236	1321
50°	1131	1230	1333
55°	1096	1228	1358
60°	1053	1234	1393
65°	998	1252	1453
70°	927	1284	1536
75°	846	1348	1666
80°	695	1451	1665
85°	533	1340	1431



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.8	3.2
10°-20°	267.8	9.1
20°-30°	403.0	13.6
30°-40°	483.0	16.3
40°-50°	503.3	17.0
50°-60°	468.3	15.9
60°-70°	385.7	13.1
70°-80°	262.7	8.9
80°-90°	86.7	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°	764.7	25.9
0°-40°	1247.7	42.2
0°-60°	2219.3	75.1
0°-90°	2954.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2954.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	992	992	992	992	992	
5°	988	988	984	989	990	94
15°	945	946	947	955	956	266
25°	860	864	873	887	890	396
35°	745	754	770	791	799	466
45°	611	624	650	682	694	471
55°	467	483	524	565	579	417
65°	314	340	393	440	456	311
75°	163	199	259	306	320	172
85°	34	67	87	93	93	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	991.9	991.9	991.9	991.9	991.9
2.5°	991.9	991.9	987.0	991.9	991.9
5°	988.0	988.0	984.0	989.0	989.9
7.5°	981.1	982.1	978.1	984.0	985.0
10°	971.2	972.2	970.2	976.1	977.1
12.5°	959.4	960.4	960.4	967.3	968.3
15°	944.6	945.6	946.6	955.4	956.4
17.5°	925.9	928.8	930.8	941.6	943.6
20°	906.1	909.1	913.0	924.9	926.8
22.5°	883.5	887.4	894.3	907.1	910.1
25°	859.8	863.7	872.6	887.4	890.4
27.5°	833.2	839.1	849.9	865.7	869.7
30°	805.6	811.5	824.3	841.1	847.0
32.5°	776.0	783.9	798.7	817.4	823.3
35°	745.4	754.3	770.1	790.8	798.7
37.5°	712.9	722.7	741.5	764.1	774.0
40°	679.4	691.2	710.9	737.5	748.4
42.5°	645.8	656.7	681.3	709.9	721.8
45°	611.3	624.1	649.8	682.3	694.1
47.5°	575.8	588.6	619.2	653.7	664.6
50°	540.3	553.1	587.7	624.1	637.0
52.5°	501.9	518.6	558.1	594.6	607.4
55°	467.4	483.1	523.6	565.0	578.8
57.5°	427.9	446.7	491.0	534.4	549.2
60°	391.4	411.2	458.5	502.9	517.6
62.5°	354.0	375.7	426.0	471.3	488.1
65°	313.5	340.2	393.4	439.8	456.5
67.5°	277.1	304.7	360.9	408.2	423.0
70°	235.7	269.2	326.4	373.7	390.5
72.5°	200.2	233.7	293.8	340.2	356.9
75°	162.7	199.2	259.3	305.7	320.4
77.5°	125.2	165.6	225.8	261.3	266.2
80°	89.7	132.1	187.3	208.0	214.9
82.5°	63.1	101.6	138.0	151.8	155.8
85°	34.5	67.0	86.8	92.7	92.7
87.5°	14.8	28.6	34.5	35.5	36.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)