

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: P276552

Luminaire Tested: **24CZ2-30-S-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P276552  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-1)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-30-S-UNV-L82765-W2A1-U-2700K  
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER  
WITH SMOOTH LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2766.2 lumens  
Efficiency: N/A  
Efficacy: 127.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

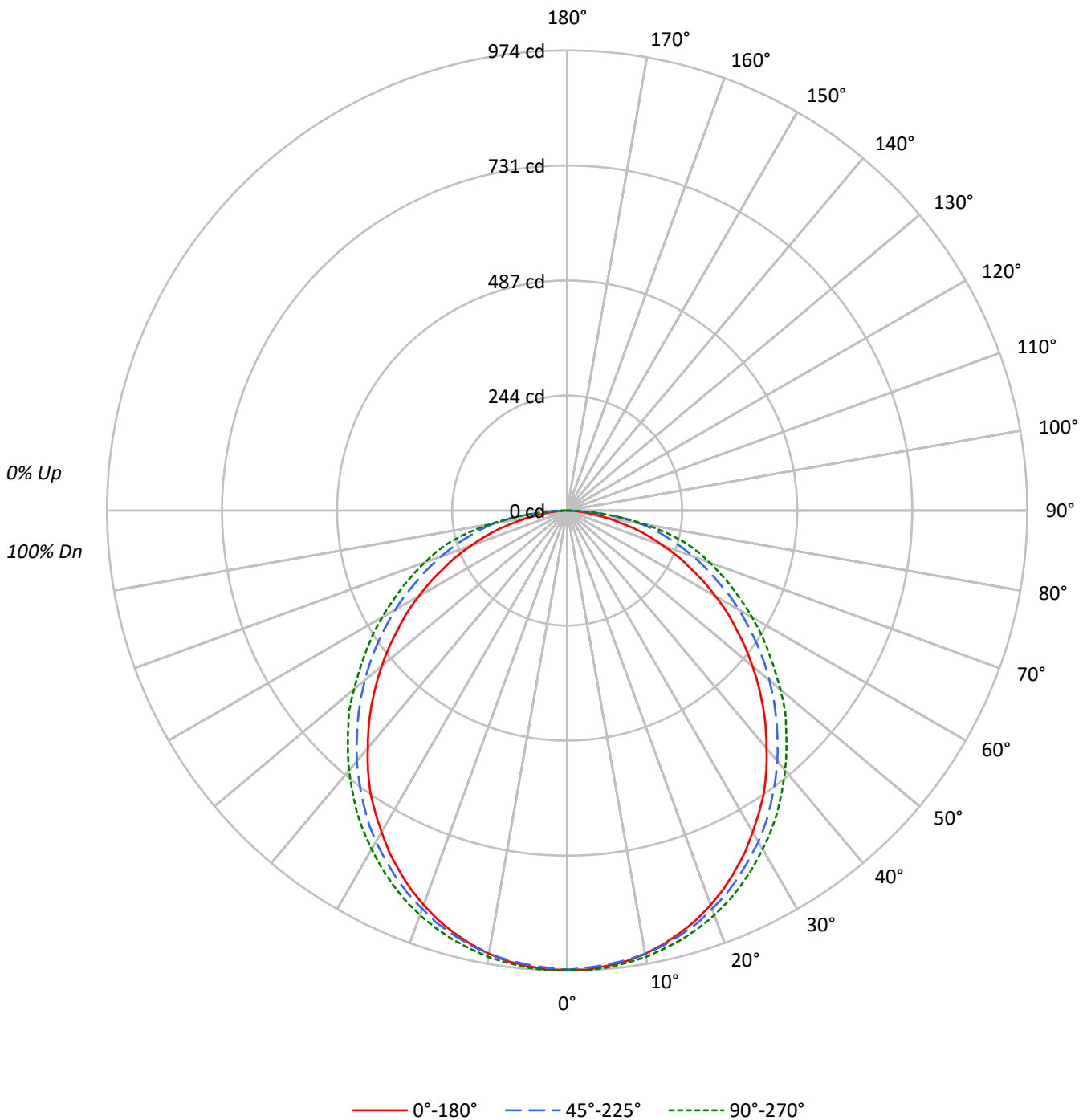
Input Watts (W): 21.762  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

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

	0°	45°	90°
0°	1308	1308	1308
5°	1307	1303	1311
10°	1301	1301	1311
15°	1289	1295	1308
20°	1272	1285	1305
25°	1248	1272	1297
30°	1220	1257	1286
35°	1194	1237	1276
40°	1153	1216	1261
45°	1115	1192	1247
50°	1072	1170	1232
55°	1024	1148	1220
60°	977	1130	1218
65°	915	1110	1225
70°	847	1116	1258
75°	758	1137	1329
80°	613	1205	1300
85°	462	1057	1031



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.0	3.3
10°-20°	262.9	9.5
20°-30°	395.2	14.3
30°-40°	470.7	17.0
40°-50°	481.7	17.4
50°-60°	433.7	15.7
60°-70°	340.6	12.3
70°-80°	221.1	8.0
80°-90°	68.4	2.5
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°	750.1	27.1
0°-40°	1220.8	44.1
0°-60°	2136.2	77.2
0°-90°	2766.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2766.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	972	972	972	972	972	
5°	967	969	965	970	971	92
15°	925	928	930	938	939	261
25°	841	848	857	871	873	387
35°	727	736	753	772	777	453
45°	586	600	626	650	656	452
55°	437	456	489	515	520	392
65°	287	309	349	378	385	286
75°	146	174	219	249	256	154
85°	30	55	68	67	67	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	971.8	971.8	971.8	971.8	971.8
2.5°	972.7	972.7	968.3	972.7	973.6
5°	967.4	969.2	964.8	970.1	970.9
7.5°	962.1	962.1	959.5	964.8	965.7
10°	952.5	953.4	952.5	958.6	959.5
12.5°	940.2	941.9	942.8	949.0	949.8
15°	925.2	927.9	929.6	937.5	939.3
17.5°	908.5	911.2	915.6	924.4	926.1
20°	888.3	891.9	897.1	908.5	911.2
22.5°	866.4	869.9	878.7	889.2	893.6
25°	840.9	847.9	856.7	870.8	873.4
27.5°	815.4	821.6	833.0	847.9	851.4
30°	785.5	795.2	809.3	824.2	827.7
32.5°	756.5	766.2	782.9	798.7	803.1
35°	726.7	735.5	753.0	771.5	776.7
37.5°	692.4	703.8	723.1	741.6	746.9
40°	656.4	670.4	692.4	711.7	717.9
42.5°	622.1	637.0	659.0	680.1	687.1
45°	586.1	600.1	626.5	650.2	655.5
47.5°	549.2	565.0	593.1	616.8	625.6
50°	512.3	529.0	558.8	583.4	588.7
52.5°	475.4	492.9	524.6	550.9	553.6
55°	436.7	456.0	489.4	514.9	520.2
57.5°	401.6	418.2	454.3	480.6	486.8
60°	362.9	381.3	420.0	444.6	452.5
62.5°	326.0	345.3	385.7	410.3	417.4
65°	287.3	309.3	348.8	377.8	384.9
67.5°	253.9	275.0	317.2	345.3	352.3
70°	215.3	239.0	283.8	312.8	319.8
72.5°	181.9	206.5	251.3	279.4	290.0
75°	145.9	174.0	218.8	248.7	255.7
77.5°	110.7	143.2	188.9	211.8	211.8
80°	79.1	113.3	155.5	166.1	167.8
82.5°	51.8	85.2	115.1	114.2	114.2
85°	29.9	55.4	68.5	66.8	66.8
87.5°	11.4	22.8	24.6	24.6	23.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)