

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: P276134

Luminaire Tested: **24CZ2-30-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P276134  
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-3500K  
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER  
WITH RIBBED LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2802.1 lumens  
Efficiency: N/A  
Efficacy: 128.2 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

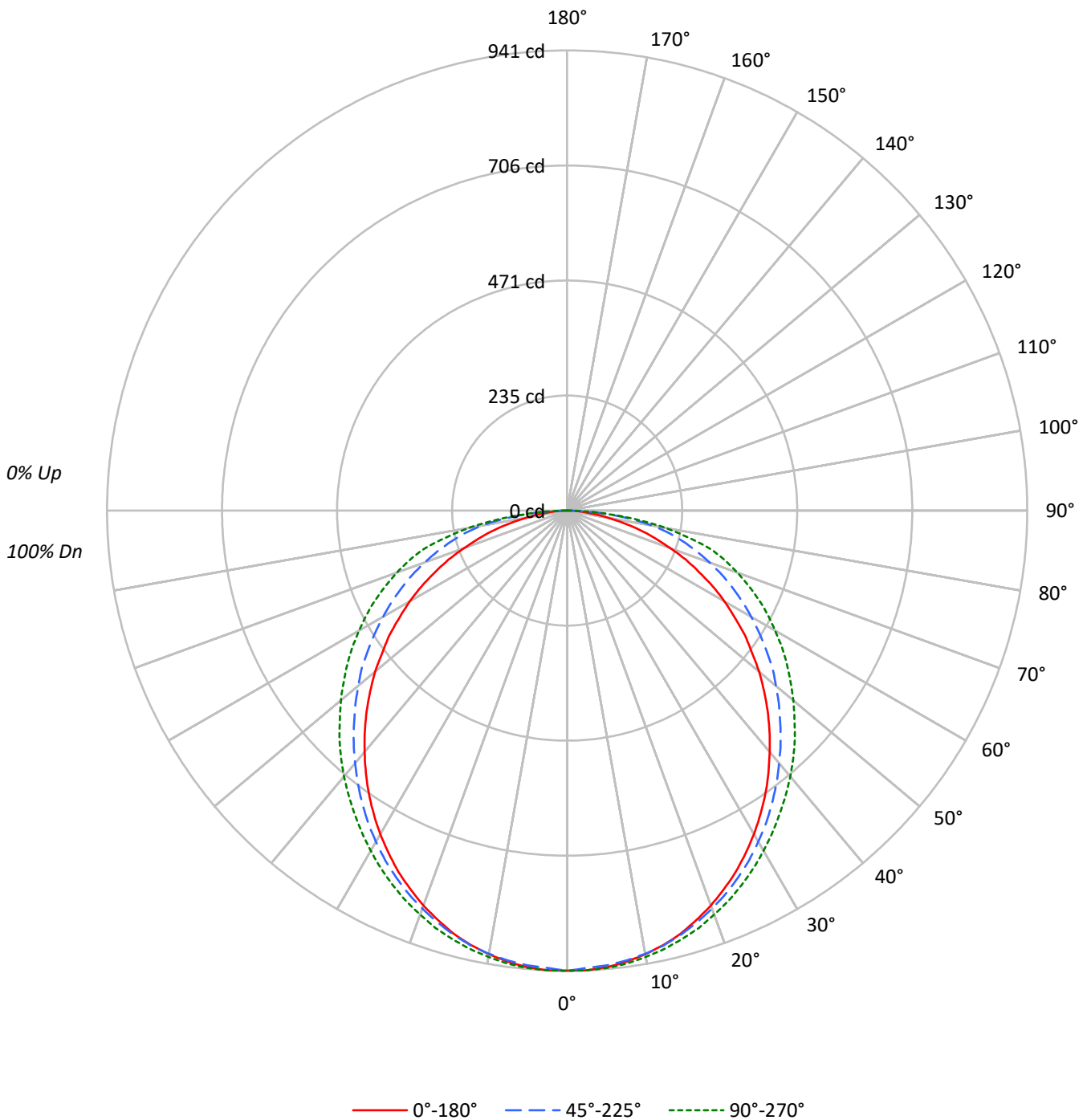
Input Watts (W): 21.855  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1266	1266	1266
5°	1266	1261	1268
10°	1258	1257	1266
15°	1248	1251	1264
20°	1231	1240	1259
25°	1211	1229	1254
30°	1187	1215	1248
35°	1161	1200	1244
40°	1132	1184	1247
45°	1103	1173	1253
50°	1073	1167	1265
55°	1040	1165	1288
60°	999	1170	1321
65°	947	1188	1379
70°	879	1218	1457
75°	802	1278	1580
80°	659	1377	1580
85°	505	1271	1357



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.0	3.2
10°-20°	254.0	9.1
20°-30°	382.3	13.6
30°-40°	458.1	16.3
40°-50°	477.4	17.0
50°-60°	444.2	15.9
60°-70°	365.8	13.1
70°-80°	249.1	8.9
80°-90°	82.2	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°	725.3	25.9
0°-40°	1183.3	42.2
0°-60°	2104.9	75.1
0°-90°	2802.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2802.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	941	941	941	941	941	
5°	937	937	933	938	939	89
15°	896	897	898	906	907	252
25°	816	819	828	842	844	375
35°	707	715	730	750	758	442
45°	580	592	616	647	658	447
55°	443	458	497	536	549	395
65°	297	323	373	417	433	295
75°	154	189	246	290	304	163
85°	33	64	82	88	88	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	940.8	940.8	940.8	940.8	940.8
2.5°	940.8	940.8	936.1	940.8	940.8
5°	937.0	937.0	933.3	938.0	938.9
7.5°	930.5	931.4	927.7	933.3	934.2
10°	921.1	922.1	920.2	925.8	926.8
12.5°	909.9	910.9	910.9	917.4	918.3
15°	895.9	896.8	897.8	906.2	907.1
17.5°	878.1	880.9	882.8	893.1	895.0
20°	859.4	862.2	866.0	877.2	879.1
22.5°	837.9	841.7	848.2	860.4	863.2
25°	815.5	819.2	827.6	841.7	844.5
27.5°	790.2	795.8	806.1	821.1	824.8
30°	764.0	769.6	781.8	797.7	803.3
32.5°	736.0	743.5	757.5	775.3	780.9
35°	707.0	715.4	730.4	750.0	757.5
37.5°	676.1	685.5	703.2	724.8	734.1
40°	644.3	655.6	674.3	699.5	709.8
42.5°	612.5	622.8	646.2	673.3	684.5
45°	579.8	592.0	616.3	647.1	658.4
47.5°	546.1	558.3	587.3	620.0	630.3
50°	512.5	524.6	557.4	592.0	604.1
52.5°	476.0	491.9	529.3	563.9	576.1
55°	443.3	458.2	496.6	535.9	548.9
57.5°	405.9	423.6	465.7	506.9	520.9
60°	371.3	390.0	434.9	476.9	491.0
62.5°	335.7	356.3	404.0	447.0	462.9
65°	297.4	322.6	373.1	417.1	433.0
67.5°	262.8	289.0	342.3	387.2	401.2
70°	223.5	255.3	309.5	354.4	370.3
72.5°	189.8	221.6	278.7	322.6	338.5
75°	154.3	188.9	245.9	289.9	303.9
77.5°	118.8	157.1	214.2	247.8	252.5
80°	85.1	125.3	177.7	197.3	203.9
82.5°	59.9	96.3	130.9	144.0	147.8
85°	32.7	63.6	82.3	87.9	87.9
87.5°	14.0	27.1	32.7	33.7	34.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)