

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: P276133

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P276133  
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-3000K  
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER  
WITH RIBBED LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2708.4 lumens  
Efficiency: N/A  
Efficacy: 125.5 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

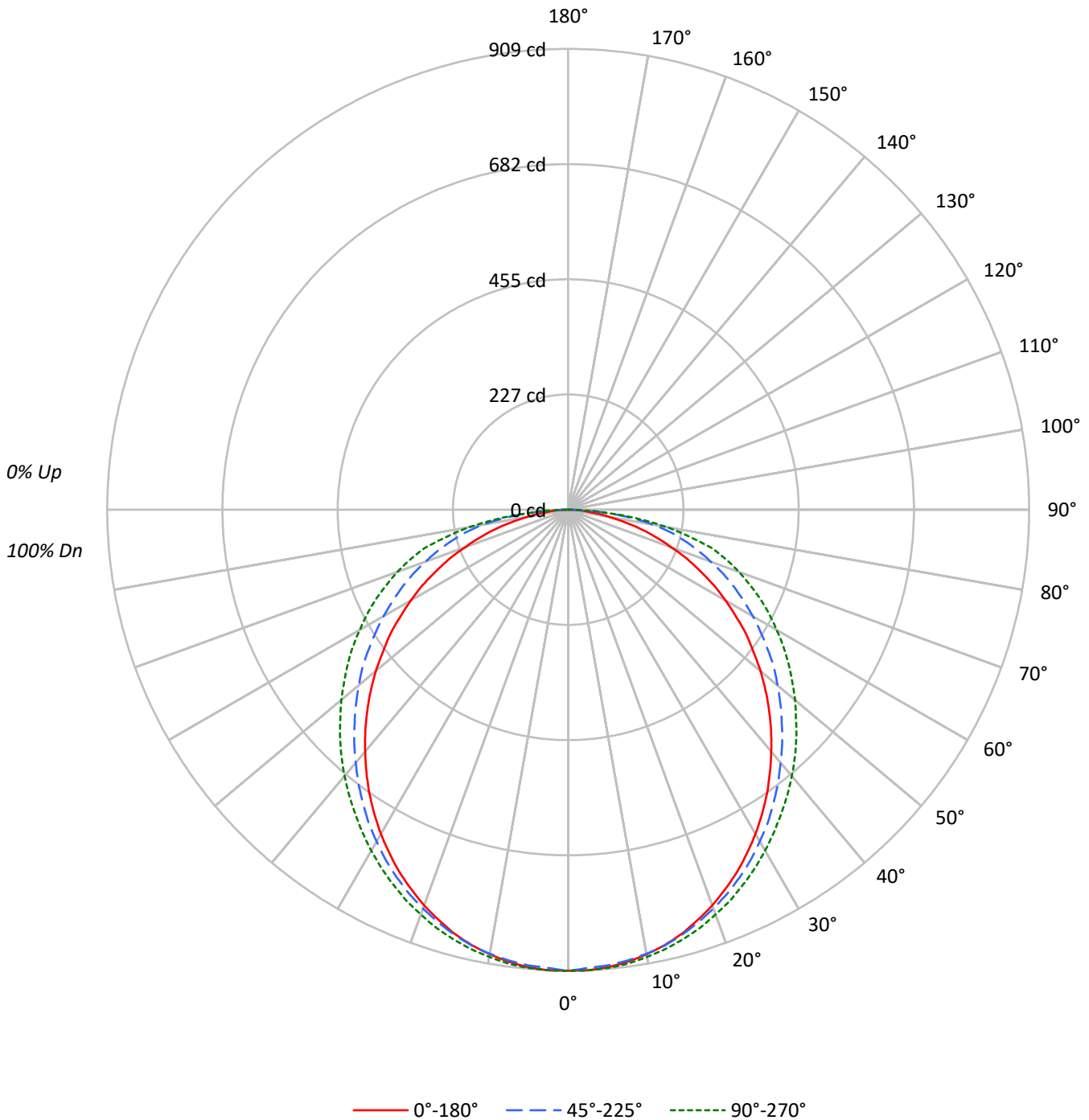
Input Watts (W): 21.576  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1223	1223	1223
5°	1223	1218	1226
10°	1217	1215	1224
15°	1206	1209	1221
20°	1189	1198	1217
25°	1170	1188	1212
30°	1147	1174	1206
35°	1123	1160	1203
40°	1094	1145	1205
45°	1066	1134	1211
50°	1037	1128	1222
55°	1005	1126	1245
60°	966	1131	1277
65°	915	1148	1332
70°	850	1177	1408
75°	775	1236	1527
80°	638	1330	1527
85°	488	1227	1312



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.0	3.2
10°-20°	245.5	9.1
20°-30°	369.5	13.6
30°-40°	442.8	16.3
40°-50°	461.4	17.0
50°-60°	429.3	15.9
60°-70°	353.6	13.1
70°-80°	240.8	8.9
80°-90°	79.5	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°	701.0	25.9
0°-40°	1143.8	42.2
0°-60°	2034.5	75.1
0°-90°	2708.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2708.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	909	909	909	909	909	
5°	906	906	902	907	908	86
15°	866	867	868	876	877	244
25°	788	792	800	814	816	363
35°	683	692	706	725	732	427
45°	560	572	596	626	636	432
55°	428	443	480	518	531	382
65°	287	312	361	403	418	285
75°	149	183	238	280	294	157
85°	32	62	80	85	85	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	909.3	909.3	909.3	909.3	909.3
2.5°	909.3	909.3	904.8	909.3	909.3
5°	905.7	905.7	902.1	906.6	907.5
7.5°	899.4	900.3	896.7	902.1	903.0
10°	890.4	891.3	889.4	894.9	895.8
12.5°	879.5	880.4	880.4	886.7	887.6
15°	865.9	866.9	867.8	875.9	876.8
17.5°	848.8	851.5	853.3	863.2	865.0
20°	830.7	833.4	837.0	847.9	849.7
22.5°	809.9	813.5	819.8	831.6	834.3
25°	788.2	791.8	800.0	813.5	816.2
27.5°	763.8	769.2	779.2	793.6	797.3
30°	738.5	743.9	755.7	771.0	776.5
32.5°	711.4	718.6	732.2	749.3	754.8
35°	683.4	691.5	706.0	724.9	732.2
37.5°	653.5	662.6	679.7	700.5	709.6
40°	622.8	633.6	651.7	676.1	686.1
42.5°	592.1	602.0	624.6	650.8	661.7
45°	560.4	572.2	595.7	625.5	636.4
47.5°	527.9	539.6	567.7	599.3	609.2
50°	495.3	507.1	538.7	572.2	583.9
52.5°	460.1	475.5	511.6	545.1	556.8
55°	428.5	442.9	480.0	517.9	530.6
57.5°	392.3	409.5	450.1	489.9	503.5
60°	358.9	376.9	420.3	461.0	474.6
62.5°	324.5	344.4	390.5	432.1	447.4
65°	287.4	311.8	360.7	403.1	418.5
67.5°	254.0	279.3	330.8	374.2	387.8
70°	216.0	246.8	299.2	342.6	357.9
72.5°	183.5	214.2	269.4	311.8	327.2
75°	149.1	182.6	237.7	280.2	293.8
77.5°	114.8	151.9	207.0	239.5	244.1
80°	82.3	121.1	171.7	190.7	197.1
82.5°	57.9	93.1	126.5	139.2	142.8
85°	31.6	61.5	79.5	85.0	85.0
87.5°	13.6	26.2	31.6	32.5	33.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)