

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: P261259

Luminaire Tested: **24CZ-LD5-30-S-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P261259  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ-LD5-30-S-UNV-L92765-W2A1-U-3500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH SMOOTH LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2680.0 lumens  
Efficiency: N/A  
Efficacy: 136.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

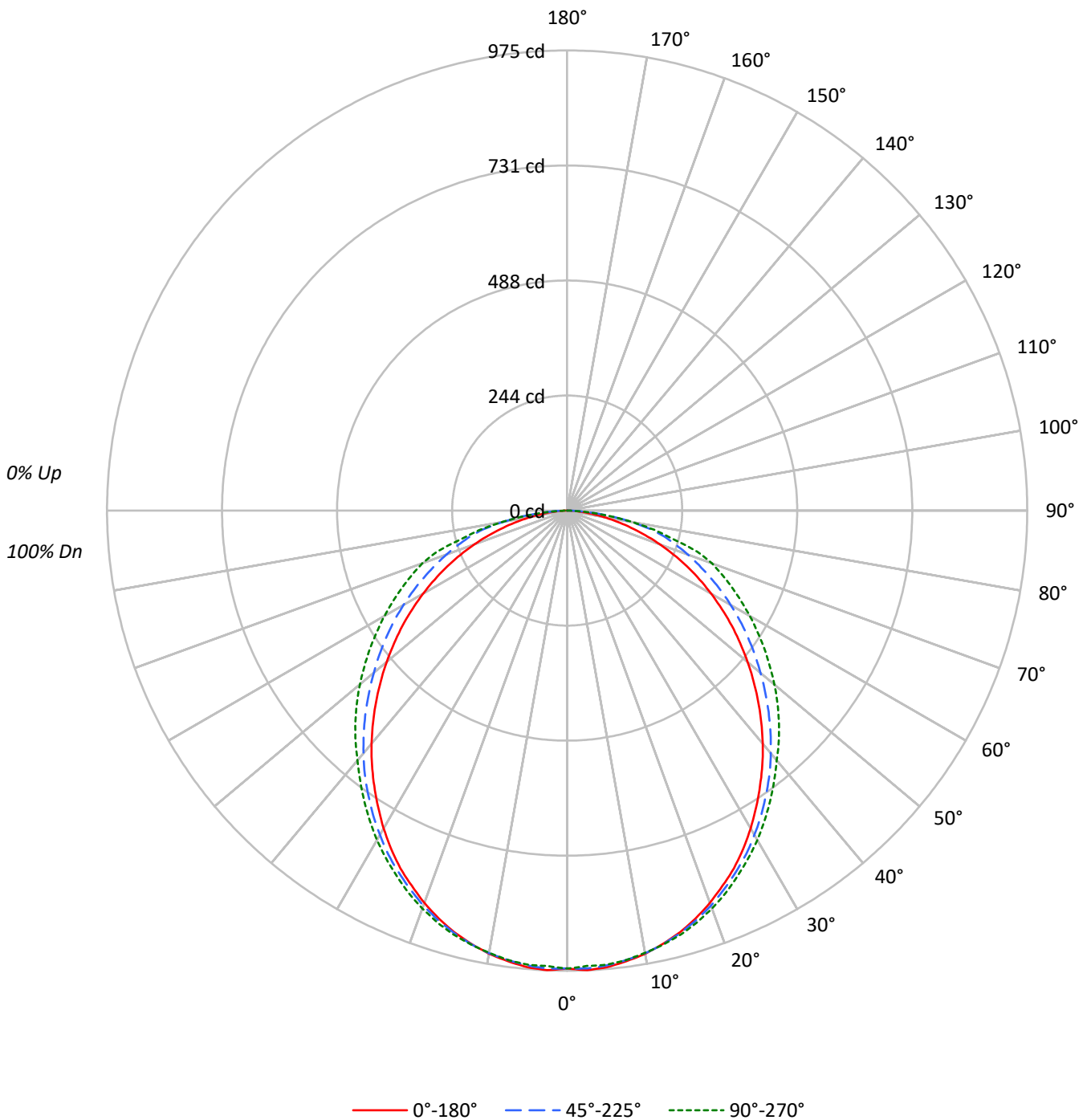
Input Watts (W): 19.623  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

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

	0°	45°	90°
0°	1305	1305	1305
5°	1312	1307	1304
10°	1302	1301	1300
15°	1288	1291	1296
20°	1267	1275	1285
25°	1242	1255	1268
30°	1208	1233	1252
35°	1170	1207	1232
40°	1132	1179	1214
45°	1089	1149	1208
50°	1045	1120	1200
55°	1000	1096	1197
60°	948	1077	1202
65°	891	1065	1226
70°	821	1070	1284
75°	728	1108	1196
80°	608	1050	1078
85°	454	840	770



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.7	3.4
10°-20°	260.9	9.7
20°-30°	388.8	14.5
30°-40°	457.7	17.1
40°-50°	465.1	17.4
50°-60°	418.2	15.6
60°-70°	330.3	12.3
70°-80°	209.6	7.8
80°-90°	57.8	2.2
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°	741.4	27.7
0°-40°	1199.0	44.7
0°-60°	2082.3	77.7
0°-90°	2680.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2680.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	970	970	970	970	970	
5°	971	963	968	966	966	92
15°	925	920	926	929	930	260
25°	836	836	845	851	854	385
35°	712	717	735	743	750	446
45°	572	580	604	622	635	442
55°	426	437	467	498	510	381
65°	280	294	334	371	385	277
75°	140	164	213	232	230	149
85°	29	51	54	50	50	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	970.2	970.2	970.2	970.2	970.2
2.5°	974.7	967.5	971.1	969.3	965.8
5°	971.1	963.1	967.5	965.8	965.8
7.5°	963.1	956.8	960.4	959.5	960.4
10°	953.3	947.0	952.4	952.4	951.5
12.5°	939.9	934.5	940.8	940.8	941.7
15°	924.7	920.3	926.5	929.2	930.1
17.5°	906.0	901.5	909.6	912.2	914.9
20°	884.6	882.8	890.8	893.5	897.1
22.5°	860.5	860.5	868.6	872.1	877.5
25°	836.4	835.6	845.4	850.7	854.3
27.5°	807.9	808.8	821.3	826.6	831.1
30°	777.6	779.4	793.6	799.9	806.1
32.5°	745.5	749.1	765.1	772.2	778.5
35°	712.5	717.0	734.8	742.8	750.0
37.5°	679.5	685.7	704.5	712.5	720.5
40°	644.7	650.1	671.5	681.3	691.1
42.5°	609.1	616.2	637.6	651.9	663.5
45°	572.5	580.5	603.7	621.5	634.9
47.5°	535.9	546.6	568.9	593.0	604.6
50°	499.4	510.1	535.0	561.8	573.4
52.5°	461.9	472.6	501.2	528.8	541.3
55°	426.3	437.0	467.3	497.6	510.1
57.5°	388.8	400.4	434.3	465.5	478.0
60°	352.2	363.8	400.4	433.4	446.8
62.5°	316.6	329.1	367.4	402.2	415.5
65°	280.0	294.3	334.4	371.0	385.2
67.5°	244.3	260.4	302.3	340.6	355.8
70°	208.7	227.4	272.0	311.2	326.4
72.5°	173.9	194.4	241.7	280.9	288.9
75°	140.0	164.1	213.1	231.9	230.1
77.5°	107.9	134.7	181.0	184.6	189.9
80°	78.5	107.9	135.5	142.7	139.1
82.5°	51.7	81.1	97.2	93.6	92.7
85°	29.4	50.8	54.4	49.9	49.9
87.5°	12.5	20.5	17.8	13.4	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)