

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: P260930

Luminaire Tested: **24CZ-LD5-30SE-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260930  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ-LD5-30SE-UNV-L92765-W2A1-U-4000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RIBBED LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2679.0 lumens  
Efficiency: N/A  
Efficacy: 121.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

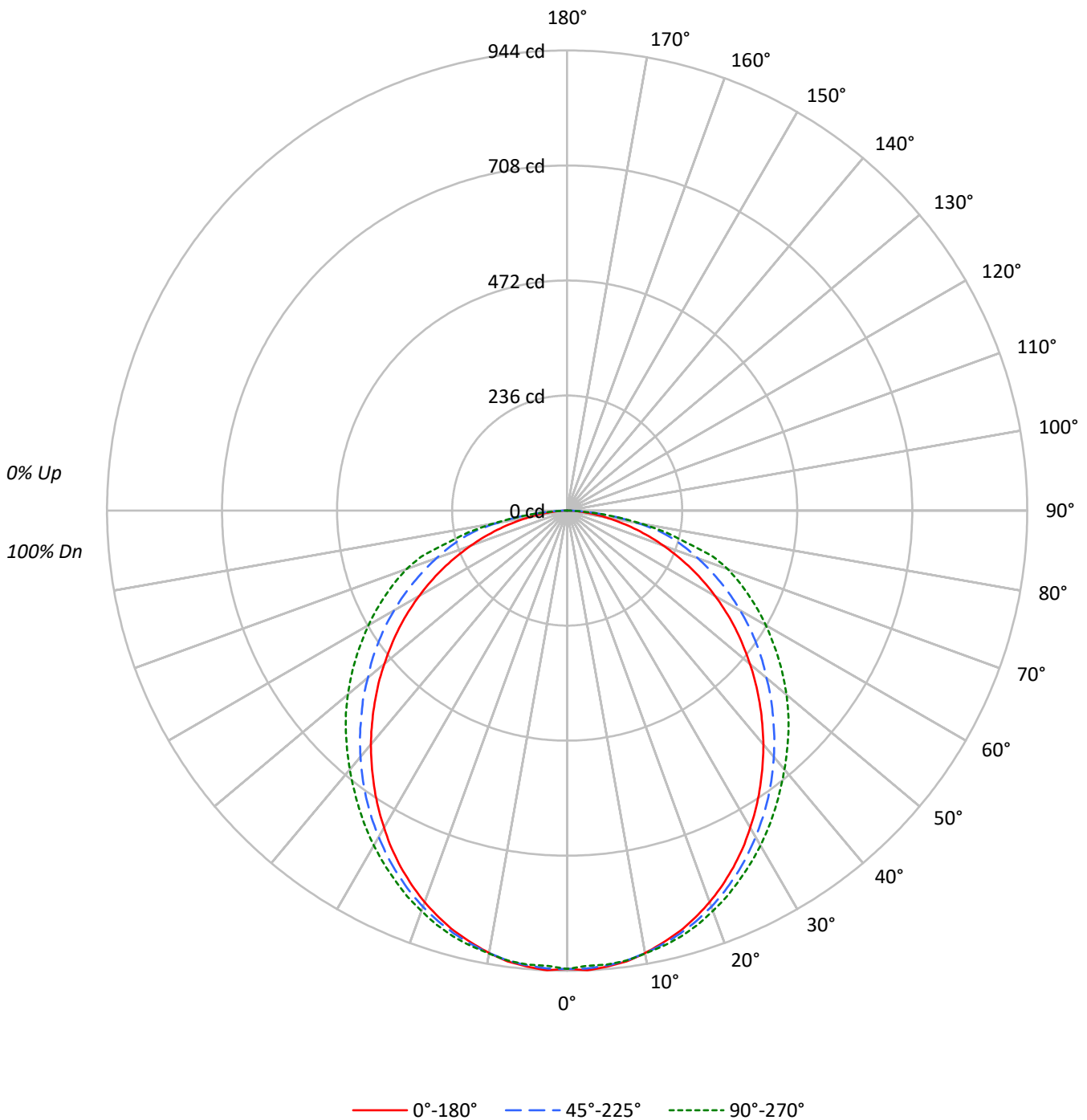
Input Watts (W): 22.041  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

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

	0°	45°	90°
0°	1265	1265	1265
5°	1269	1265	1262
10°	1259	1259	1261
15°	1244	1251	1260
20°	1224	1239	1252
25°	1198	1222	1242
30°	1167	1201	1233
35°	1135	1181	1223
40°	1100	1158	1218
45°	1063	1136	1222
50°	1025	1117	1229
55°	988	1110	1242
60°	943	1103	1266
65°	894	1104	1308
70°	827	1122	1378
75°	739	1173	1311
80°	618	1123	1201
85°	468	865	821



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.8	3.3
10°-20°	252.9	9.4
20°-30°	378.0	14.1
30°-40°	448.4	16.7
40°-50°	461.6	17.2
50°-60°	423.4	15.8
60°-70°	342.4	12.8
70°-80°	222.2	8.3
80°-90°	61.3	2.3
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°	719.7	26.9
0°-40°	1168.2	43.6
0°-60°	2053.2	76.6
0°-90°	2679.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2679.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	940	940	940	940	940	
5°	939	933	936	936	935	89
15°	893	890	898	902	904	252
25°	807	808	823	830	836	372
35°	691	696	719	735	745	432
45°	559	568	597	626	642	431
55°	421	434	473	512	529	376
65°	281	297	347	393	411	277
75°	142	169	226	252	252	151
85°	30	51	56	54	53	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	940.2	940.2	940.2	940.2	940.2
2.5°	943.9	936.5	940.2	939.3	934.7
5°	939.3	932.9	936.5	935.6	934.7
7.5°	932.9	926.4	931.0	930.1	931.0
10°	921.8	916.3	921.8	922.8	922.8
12.5°	908.1	903.5	910.8	912.7	914.5
15°	893.4	889.7	898.0	901.7	904.4
17.5°	875.1	872.3	882.4	887.0	890.7
20°	854.9	854.0	865.0	869.6	874.1
22.5°	832.0	832.0	844.8	850.3	856.7
25°	807.2	808.1	822.8	830.1	836.5
27.5°	780.6	781.5	798.9	808.1	815.4
30°	751.2	754.9	773.2	785.2	793.4
32.5°	721.9	726.5	746.6	760.4	769.6
35°	690.7	696.2	719.1	734.7	744.8
37.5°	658.6	665.0	689.8	707.2	719.1
40°	626.5	633.8	659.5	679.7	693.4
42.5°	592.5	600.8	629.2	653.1	667.8
45°	558.6	567.8	597.1	625.6	642.1
47.5°	524.7	535.7	566.9	598.1	615.5
50°	489.8	500.8	533.8	569.6	587.0
52.5°	455.0	467.8	504.5	541.2	558.6
55°	421.0	433.9	473.3	511.8	529.3
57.5°	386.2	399.0	442.1	482.5	499.9
60°	350.4	365.1	410.0	451.3	470.6
62.5°	315.5	331.1	378.8	422.9	441.2
65°	280.7	297.2	346.7	392.6	410.9
67.5°	244.9	264.2	315.5	362.3	381.6
70°	210.1	231.1	285.3	332.0	350.4
72.5°	176.1	199.0	255.0	302.7	313.7
75°	142.2	168.8	225.6	252.2	252.2
77.5°	110.1	139.4	192.6	202.7	208.2
80°	79.8	111.9	144.9	156.9	155.0
82.5°	53.2	85.3	103.7	103.7	100.9
85°	30.3	51.4	56.0	54.1	53.2
87.5°	12.8	19.3	17.4	13.8	11.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)