

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: P263647

Luminaire Tested: **24CZ-LD5-30-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263647  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ-LD5-30-RDP-UNV-L82765-W2A1-U-5000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2197.0 lumens  
Efficiency: N/A  
Efficacy: 109.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

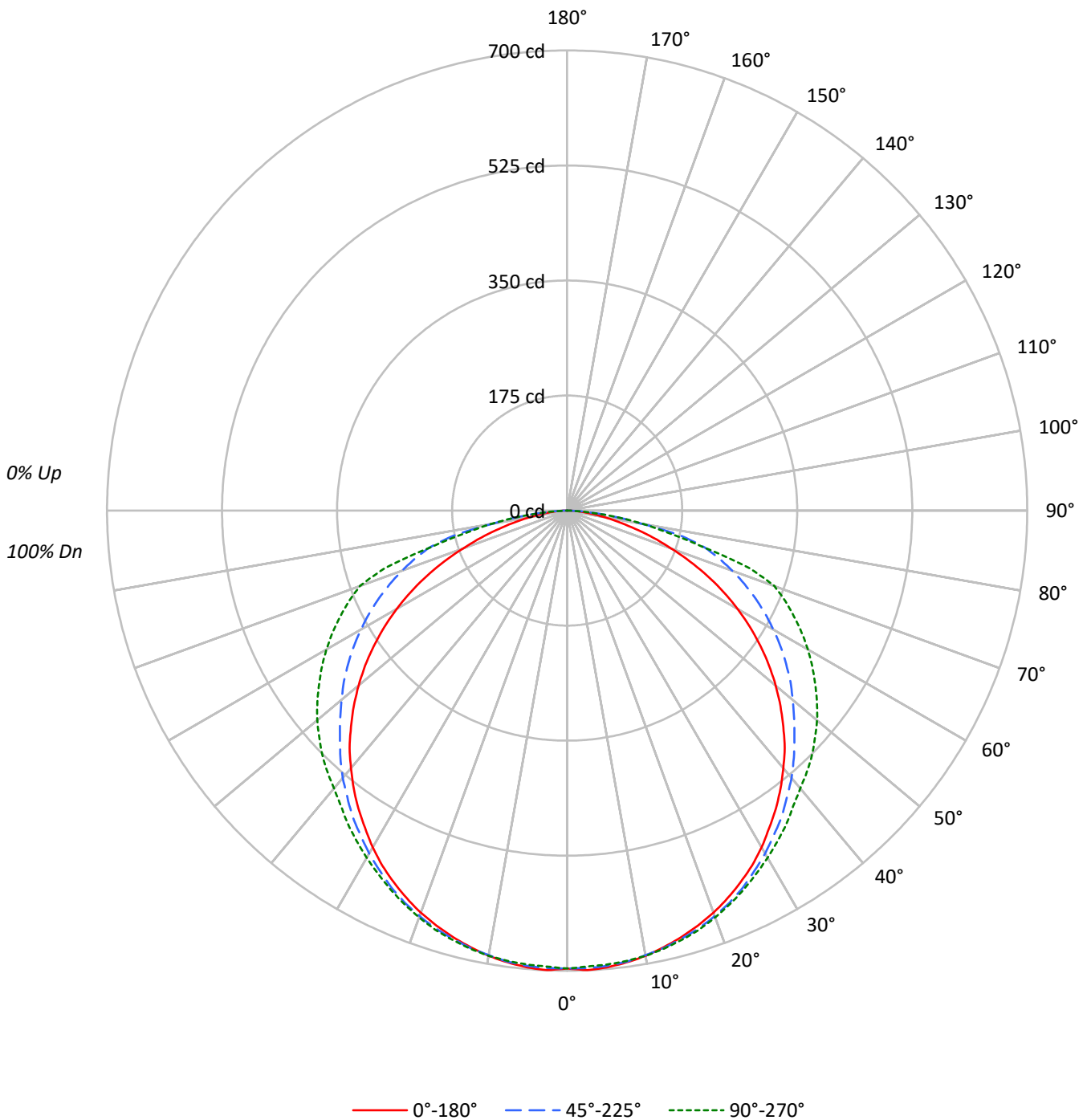
Input Watts (W): 20.088  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	101	97	93	96	93	90		92	90	87		89	87	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	60		70	64	59		67	62	58	56
4	81	68	59	52	78	67	58	52	64	57	51		62	56	50		60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44		55	49	43		54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38		50	43	38		48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	34		45	38	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40	34	29	27
9	55	41	33	27	53	41	32	27	39	32	27		38	32	27		37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		35	28	24	22

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

	0°	45°	90°
0°	937	937	937
5°	942	939	936
10°	940	938	940
15°	936	939	941
20°	932	940	943
25°	926	939	944
30°	919	936	948
35°	909	934	956
40°	898	933	969
45°	885	930	1002
50°	867	937	1039
55°	842	954	1081
60°	806	975	1138
65°	751	1005	1212
70°	664	1051	1319
75°	557	1124	1107
80°	444	888	922
85°	350	601	551



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.1	3.0
10°-20°	190.1	8.7
20°-30°	290.4	13.2
30°-40°	355.0	16.2
40°-50°	380.0	17.3
50°-60°	364.5	16.6
60°-70°	307.8	14.0
70°-80°	196.7	9.0
80°-90°	46.5	2.1
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°	546.6	24.9
0°-40°	901.6	41.0
0°-60°	1646.0	74.9
0°-90°	2197.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2197.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	696	696	696	696	696	
5°	698	693	695	694	693	66
15°	672	669	674	676	676	190
25°	624	623	633	635	636	288
35°	554	558	569	576	582	346
45°	465	473	489	512	527	359
55°	359	371	407	443	461	320
65°	236	258	316	360	381	233
75°	107	152	216	221	213	115
85°	23	38	39	38	36	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	696.5	696.5	696.5	696.5	696.5
2.5°	699.7	695.4	696.5	696.5	694.3
5°	697.5	693.2	695.4	694.3	693.2
7.5°	693.2	690.0	692.1	692.1	691.1
10°	687.8	684.6	686.7	687.8	687.8
12.5°	680.2	678.1	681.3	681.3	682.4
15°	671.6	669.4	673.8	675.9	675.9
17.5°	661.9	660.8	666.2	667.3	668.3
20°	651.0	650.0	656.5	656.5	658.6
22.5°	638.1	637.0	645.6	645.6	647.8
25°	624.0	622.9	632.7	634.8	635.9
27.5°	608.9	607.8	617.5	620.8	622.9
30°	591.6	591.6	602.4	606.7	609.9
32.5°	572.1	575.3	585.1	591.6	595.9
35°	553.7	558.0	568.9	576.4	581.8
37.5°	533.2	537.5	549.4	559.1	565.6
40°	511.5	516.9	531.0	541.8	551.6
42.5°	489.9	495.3	510.5	526.7	539.7
45°	465.0	472.6	488.8	511.5	526.7
47.5°	440.2	447.7	468.3	496.4	511.5
50°	414.2	422.9	447.7	480.2	496.4
52.5°	387.2	396.9	428.3	462.9	479.1
55°	359.0	370.9	406.6	443.4	460.7
57.5°	329.8	342.8	385.0	423.9	442.3
60°	299.6	315.8	362.3	403.4	422.9
62.5°	268.2	287.7	339.6	381.8	402.3
65°	235.8	258.5	315.8	360.1	380.7
67.5°	202.2	232.5	292.0	338.5	359.0
70°	168.7	204.4	267.1	314.7	335.3
72.5°	137.3	178.4	242.2	286.6	290.9
75°	107.1	152.5	216.3	220.6	213.0
77.5°	80.0	126.5	178.4	159.0	157.9
80°	57.3	101.7	114.6	117.9	119.0
82.5°	37.9	76.8	74.6	76.8	75.7
85°	22.7	37.9	38.9	37.9	35.7
87.5°	10.8	14.1	10.8	9.7	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)