

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: P263650

Luminaire Tested: **24CZ-LD5-30-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263650  
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-6500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2230.0 lumens  
Efficiency: N/A  
Efficacy: 109.0 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

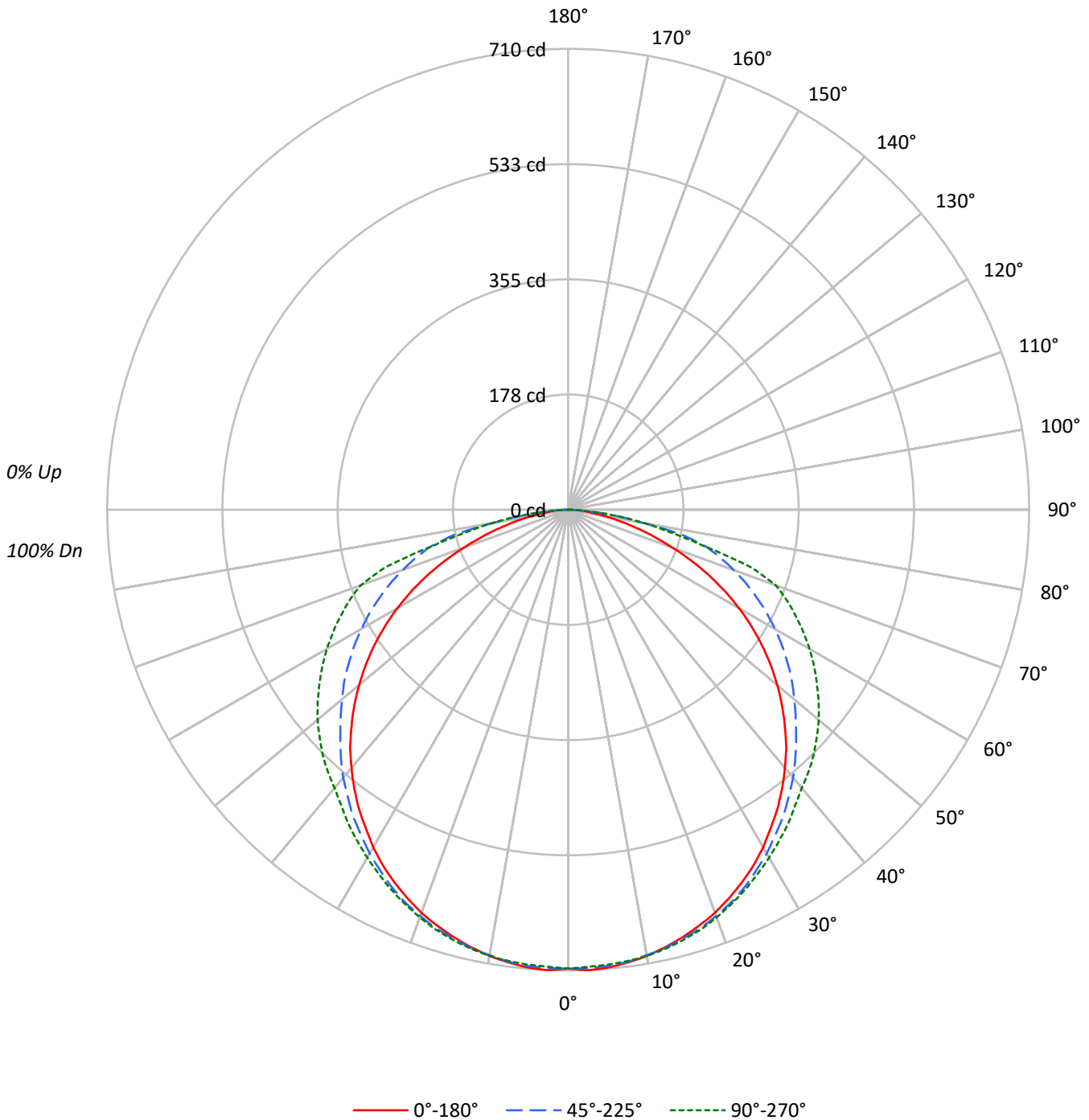
Input Watts (W): 20.46  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	951	951	951
5°	956	953	950
10°	954	952	954
15°	950	953	956
20°	946	954	957
25°	940	953	958
30°	933	950	962
35°	923	948	970
40°	912	947	983
45°	898	944	1017
50°	880	951	1055
55°	855	968	1097
60°	818	989	1155
65°	762	1020	1230
70°	673	1066	1339
75°	565	1141	1124
80°	451	902	935
85°	357	610	559



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.0	3.0
10°-20°	193.0	8.7
20°-30°	294.7	13.2
30°-40°	360.3	16.2
40°-50°	385.7	17.3
50°-60°	370.0	16.6
60°-70°	312.4	14.0
70°-80°	199.6	9.0
80°-90°	47.2	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°	554.8	24.9
0°-40°	915.1	41.0
0°-60°	1670.8	74.9
0°-90°	2230.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2230.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	707	707	707	707	707	
5°	708	704	706	705	704	67
15°	682	680	684	686	686	192
25°	633	632	642	644	646	292
35°	562	566	577	585	591	351
45°	472	480	496	519	535	364
55°	364	376	413	450	468	325
65°	239	262	320	366	386	236
75°	109	155	220	224	216	117
85°	23	38	40	38	36	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	706.9	706.9	706.9	706.9	706.9
2.5°	710.2	705.8	706.9	706.9	704.7
5°	708.0	703.6	705.8	704.7	703.6
7.5°	703.6	700.3	702.5	702.5	701.4
10°	698.1	694.9	697.0	698.1	698.1
12.5°	690.5	688.3	691.6	691.6	692.7
15°	681.7	679.5	683.9	686.1	686.1
17.5°	671.8	670.7	676.2	677.3	678.4
20°	660.8	659.7	666.3	666.3	668.5
22.5°	647.7	646.6	655.3	655.3	657.5
25°	633.4	632.3	642.2	644.4	645.5
27.5°	618.0	616.9	626.8	630.1	632.3
30°	600.5	600.5	611.4	615.8	619.1
32.5°	580.7	584.0	593.9	600.5	604.8
35°	562.0	566.4	577.4	585.1	590.6
37.5°	541.2	545.6	557.6	567.5	574.1
40°	519.2	524.7	539.0	550.0	559.8
42.5°	497.3	502.8	518.1	534.6	547.8
45°	472.0	479.7	496.2	519.2	534.6
47.5°	446.8	454.5	475.3	503.9	519.2
50°	420.4	429.2	454.5	487.4	503.9
52.5°	393.0	402.9	434.7	469.8	486.3
55°	364.4	376.5	412.7	450.1	467.6
57.5°	334.8	348.0	390.8	430.3	449.0
60°	304.1	320.5	367.7	409.4	429.2
62.5°	272.2	292.0	344.7	387.5	408.4
65°	239.3	262.4	320.5	365.5	386.4
67.5°	205.3	236.0	296.4	343.6	364.4
70°	171.2	207.5	271.1	319.4	340.3
72.5°	139.4	181.1	245.9	290.9	295.3
75°	108.7	154.8	219.5	223.9	216.2
77.5°	81.2	128.4	181.1	161.4	160.3
80°	58.2	103.2	116.4	119.7	120.7
82.5°	38.4	77.9	75.7	77.9	76.8
85°	23.1	38.4	39.5	38.4	36.2
87.5°	11.0	14.3	11.0	9.9	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)