

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: P263646

Luminaire Tested: **24CZ-LD5-30-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263646  
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-4500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2168.0 lumens  
Efficiency: N/A  
Efficacy: 108.4 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

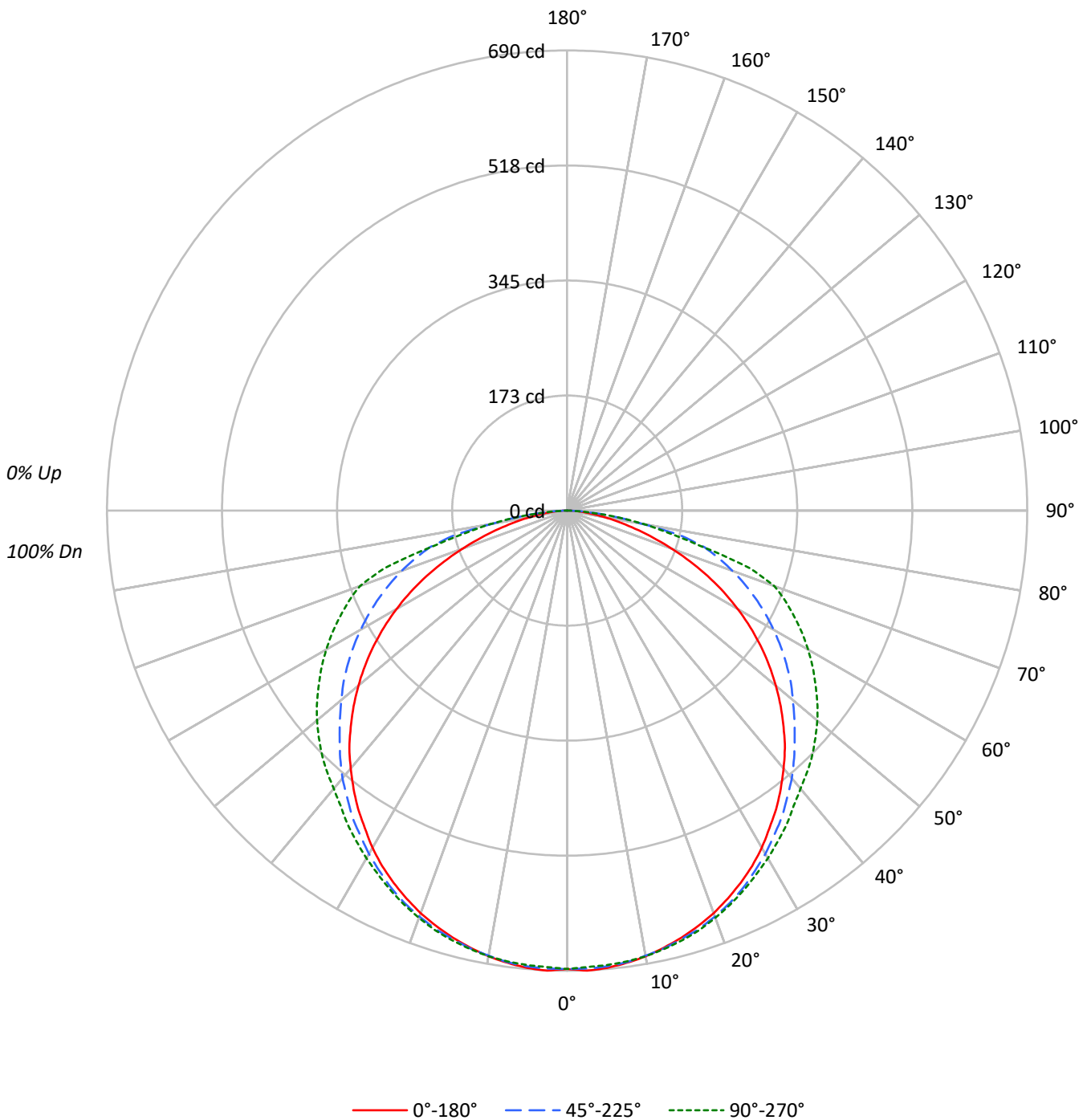
Input Watts (W): 19.995  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20			20			20			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	61	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°	925	925	925
5°	930	927	924
10°	927	926	927
15°	923	926	929
20°	920	928	931
25°	914	927	932
30°	907	923	935
35°	897	922	943
40°	887	920	956
45°	873	918	989
50°	855	925	1025
55°	831	941	1066
60°	795	962	1123
65°	741	992	1196
70°	655	1037	1301
75°	549	1109	1093
80°	439	876	910
85°	346	593	543



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.2	3.0
10°-20°	187.6	8.7
20°-30°	286.5	13.2
30°-40°	350.3	16.2
40°-50°	375.0	17.3
50°-60°	359.7	16.6
60°-70°	303.7	14.0
70°-80°	194.1	9.0
80°-90°	45.9	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°	539.3	24.9
0°-40°	889.7	41.0
0°-60°	1624.3	74.9
0°-90°	2168.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2168.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	687	687	687	687	687	
5°	688	684	686	685	684	65
15°	663	661	665	667	667	187
25°	616	615	624	626	628	284
35°	546	551	561	569	574	342
45°	459	466	482	505	520	354
55°	354	366	401	438	455	316
65°	233	255	312	355	376	229
75°	106	150	213	218	210	114
85°	22	37	38	37	35	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	687.3	687.3	687.3	687.3	687.3
2.5°	690.5	686.2	687.3	687.3	685.1
5°	688.3	684.1	686.2	685.1	684.1
7.5°	684.1	680.9	683.0	683.0	681.9
10°	678.7	675.5	677.7	678.7	678.7
12.5°	671.3	669.1	672.3	672.3	673.4
15°	662.7	660.6	664.9	667.0	667.0
17.5°	653.1	652.1	657.4	658.5	659.5
20°	642.5	641.4	647.8	647.8	649.9
22.5°	629.6	628.6	637.1	637.1	639.3
25°	615.8	614.7	624.3	626.4	627.5
27.5°	600.8	599.8	609.4	612.6	614.7
30°	583.8	583.8	594.4	598.7	601.9
32.5°	564.5	567.7	577.4	583.8	588.0
35°	546.4	550.7	561.3	568.8	574.2
37.5°	526.1	530.4	542.1	551.7	558.1
40°	504.8	510.1	524.0	534.7	544.3
42.5°	483.4	488.8	503.7	519.7	532.5
45°	458.9	466.4	482.4	504.8	519.7
47.5°	434.3	441.8	462.1	489.8	504.8
50°	408.7	417.3	441.8	473.8	489.8
52.5°	382.1	391.7	422.6	456.8	472.8
55°	354.3	366.0	401.3	437.6	454.6
57.5°	325.5	338.3	379.9	418.3	436.5
60°	295.6	311.6	357.5	398.1	417.3
62.5°	264.7	283.9	335.1	376.7	397.0
65°	232.6	255.1	311.6	355.4	375.7
67.5°	199.6	229.4	288.1	334.0	354.3
70°	166.5	201.7	263.6	310.6	330.8
72.5°	135.5	176.1	239.1	282.8	287.1
75°	105.7	150.5	213.4	217.7	210.2
77.5°	79.0	124.9	176.1	156.9	155.8
80°	56.6	100.3	113.1	116.3	117.4
82.5°	37.4	75.8	73.6	75.8	74.7
85°	22.4	37.4	38.4	37.4	35.2
87.5°	10.7	13.9	10.7	9.6	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)