

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: P276783

Luminaire Tested: **24CZ2-30-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P276783  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-30-RDP-UNV-L83050-W2A1-U-3500K  
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1930.0 lumens  
Efficiency: N/A  
Efficacy: 88.7 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

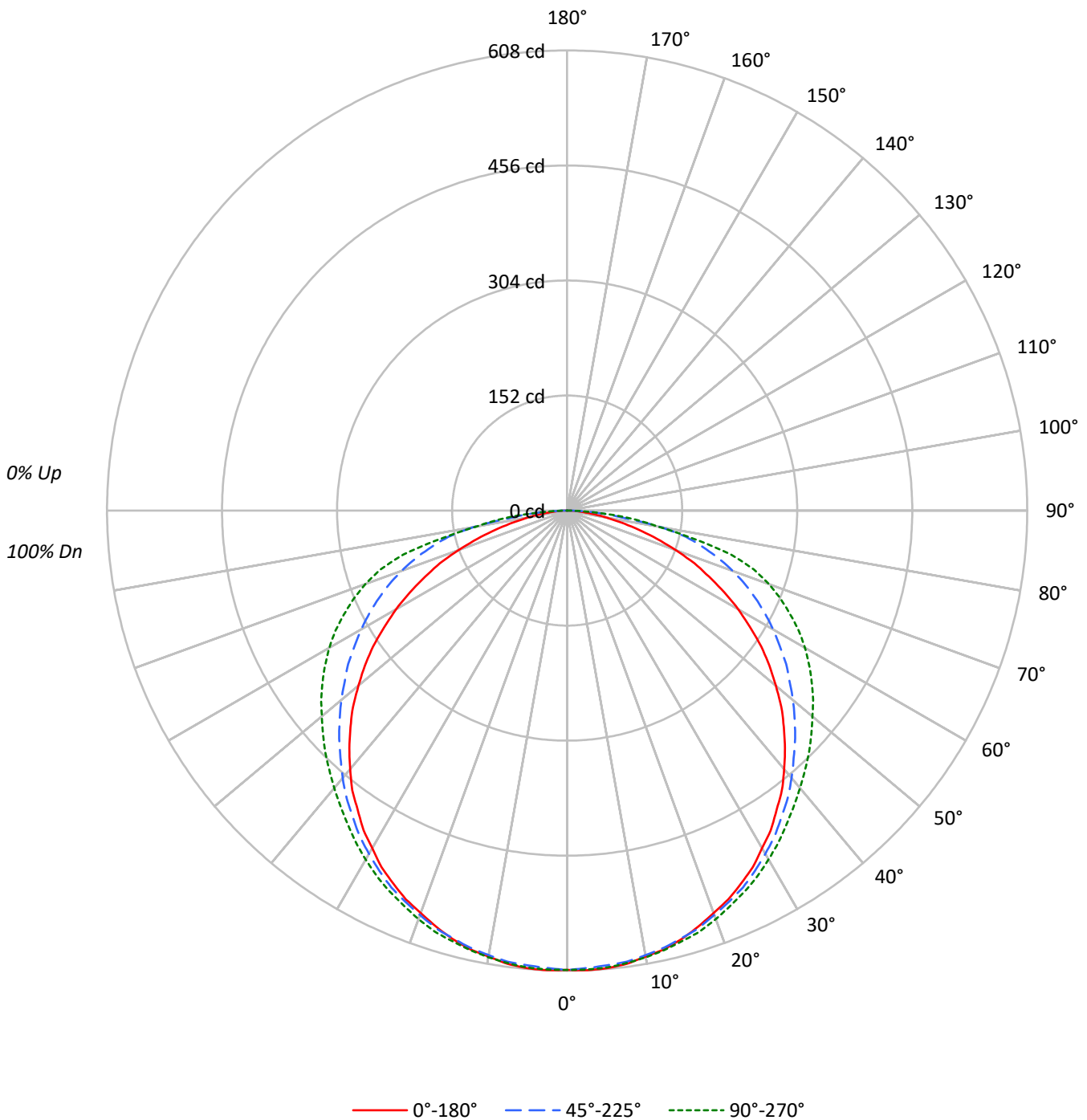
Input Watts (W): 21.762  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	68	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

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

	0°	45°	90°
0°	817	817	817
5°	820	815	818
10°	817	815	819
15°	816	815	820
20°	810	814	822
25°	807	816	824
30°	800	813	827
35°	793	811	830
40°	784	810	841
45°	770	811	860
50°	753	816	886
55°	734	829	925
60°	703	845	976
65°	658	875	1036
70°	599	915	1115
75°	507	965	1164
80°	401	972	942
85°	295	739	827



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.6	3.0
10°-20°	165.7	8.6
20°-30°	253.4	13.1
30°-40°	309.8	16.0
40°-50°	330.1	17.1
50°-60°	315.7	16.4
60°-70°	267.4	13.9
70°-80°	179.7	9.3
80°-90°	50.7	2.6
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°	476.7	24.7
0°-40°	786.4	40.7
0°-60°	1432.2	74.2
0°-90°	1930.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1930.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	607	607	607	607	607	
5°	607	606	603	606	606	58
15°	586	586	585	590	589	165
25°	544	546	550	554	555	251
35°	482	486	494	504	506	302
45°	405	412	426	444	452	312
55°	313	324	353	381	394	279
65°	207	228	275	311	326	205
75°	98	133	186	217	224	105
85°	19	39	48	52	54	24
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	606.9	606.9	606.9	606.9	606.9
2.5°	607.9	607.9	605.0	606.9	606.9
5°	606.9	606.0	603.1	606.0	606.0
7.5°	604.1	603.1	601.2	604.1	603.1
10°	598.3	598.3	596.4	599.3	599.3
12.5°	593.5	592.6	591.6	595.4	594.5
15°	585.9	585.9	584.9	589.7	588.7
17.5°	576.3	577.3	578.2	582.0	583.0
20°	565.8	567.7	568.6	574.4	574.4
22.5°	556.2	557.2	559.1	564.8	564.8
25°	543.7	545.7	549.5	554.3	555.2
27.5°	531.3	532.3	537.0	543.7	544.7
30°	515.0	517.9	523.6	531.3	532.3
32.5°	500.7	503.5	510.2	517.9	519.8
35°	482.5	486.3	494.0	503.5	505.5
37.5°	466.2	469.1	478.7	489.2	492.1
40°	446.1	451.8	461.4	473.9	478.7
42.5°	426.0	431.7	443.2	459.5	465.2
45°	404.9	411.6	426.0	444.2	451.8
47.5°	383.9	391.5	407.8	428.9	437.5
50°	359.9	369.5	389.6	413.6	423.1
52.5°	337.0	348.5	370.5	397.3	409.7
55°	313.0	324.5	353.2	381.0	394.4
57.5°	286.2	301.6	333.1	364.7	379.1
60°	261.3	275.7	314.0	348.5	362.8
62.5°	234.5	253.7	294.8	331.2	345.6
65°	206.8	227.8	274.7	311.1	325.5
67.5°	181.9	204.9	254.6	291.0	305.4
70°	152.2	180.9	232.6	269.0	283.4
72.5°	124.4	156.0	209.6	245.1	258.5
75°	97.6	133.1	185.7	217.3	224.0
77.5°	72.8	110.1	160.8	174.2	169.4
80°	51.7	88.1	125.4	118.7	121.6
82.5°	33.5	67.0	77.5	88.1	90.9
85°	19.1	39.2	47.9	51.7	53.6
87.5°	8.6	14.4	19.1	19.1	18.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)