

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: P276975

Luminaire Tested: **24CZ2-30-RDP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P276975  
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-L82765-W2A1-U-4000K  
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1926.5 lumens  
Efficiency: N/A  
Efficacy: 87.4 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

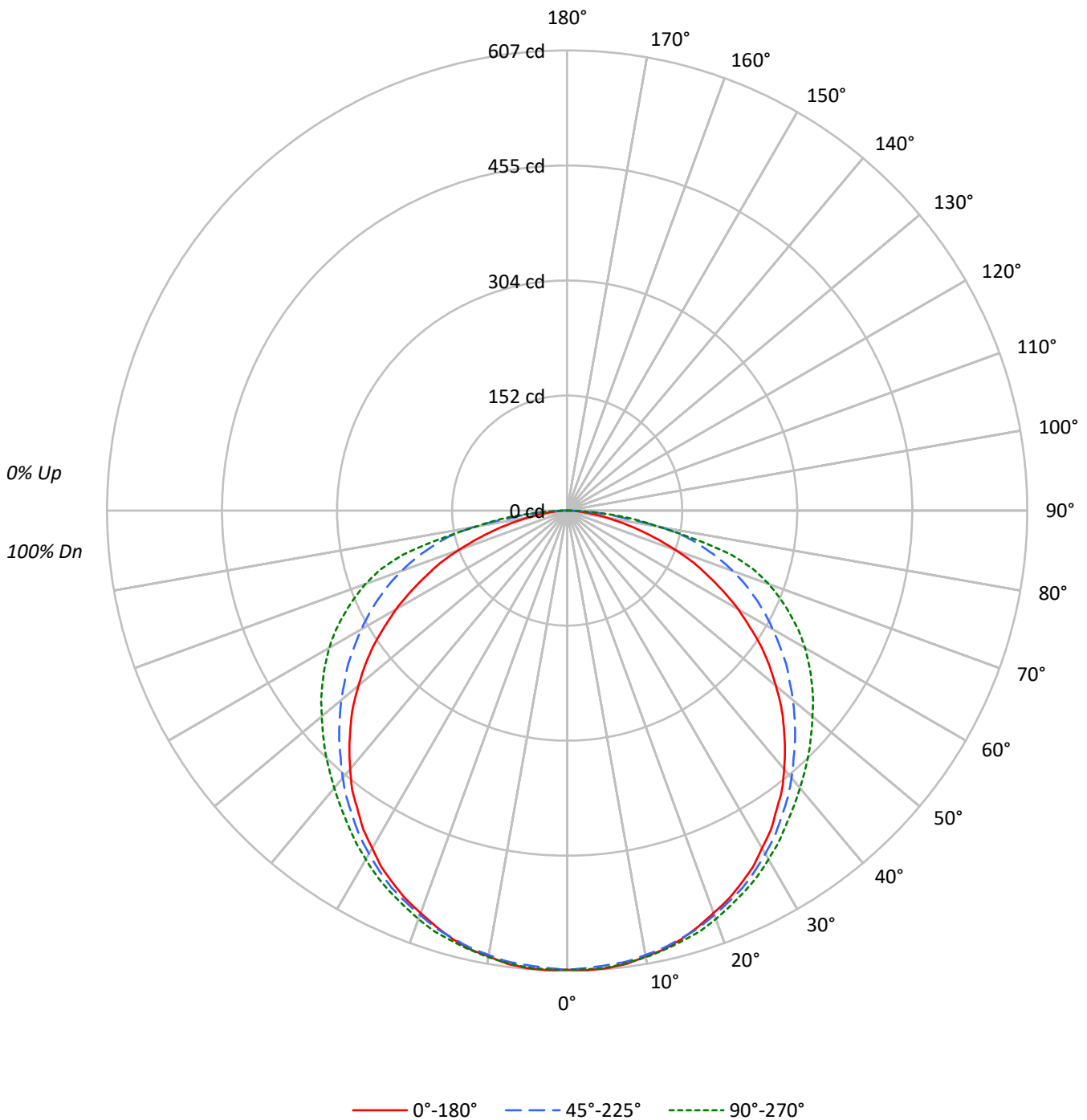
Input Watts (W): 22.041  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20			20			20			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°	815	815	815
5°	818	813	817
10°	816	813	817
15°	815	813	819
20°	809	813	821
25°	806	814	823
30°	799	812	825
35°	791	810	829
40°	782	809	839
45°	769	809	858
50°	752	814	884
55°	733	827	924
60°	702	843	975
65°	657	873	1034
70°	598	913	1113
75°	507	964	1162
80°	400	970	941
85°	295	738	826



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.5	3.0
10°-20°	165.4	8.6
20°-30°	252.9	13.1
30°-40°	309.2	16.0
40°-50°	329.5	17.1
50°-60°	315.1	16.4
60°-70°	266.9	13.9
70°-80°	179.4	9.3
80°-90°	50.6	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°	475.8	24.7
0°-40°	785.0	40.7
0°-60°	1429.6	74.2
0°-90°	1926.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1926.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	606	606	606	606	606	
5°	606	605	602	605	605	58
15°	585	585	584	589	588	165
25°	543	545	548	553	554	250
35°	482	485	493	503	505	302
45°	404	411	425	443	451	312
55°	312	324	353	380	394	278
65°	206	227	274	311	325	205
75°	98	133	185	217	224	104
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°	605.8	605.8	605.8	605.8	605.8
2.5°	606.8	606.8	603.9	605.8	605.8
5°	605.8	604.9	602.0	604.9	604.9
7.5°	603.0	602.0	600.1	603.0	602.0
10°	597.2	597.2	595.3	598.2	598.2
12.5°	592.5	591.5	590.6	594.4	593.4
15°	584.8	584.8	583.9	588.6	587.7
17.5°	575.3	576.2	577.2	581.0	582.0
20°	564.8	566.7	567.6	573.4	573.4
22.5°	555.2	556.2	558.1	563.8	563.8
25°	542.8	544.7	548.5	553.3	554.2
27.5°	530.4	531.3	536.1	542.8	543.7
30°	514.1	517.0	522.7	530.4	531.3
32.5°	499.8	502.6	509.3	517.0	518.9
35°	481.6	485.4	493.1	502.6	504.6
37.5°	465.4	468.2	477.8	488.3	491.2
40°	445.3	451.0	460.6	473.0	477.8
42.5°	425.2	431.0	442.4	458.7	464.4
45°	404.2	410.9	425.2	443.4	451.0
47.5°	383.2	390.8	407.1	428.1	436.7
50°	359.3	368.9	388.9	412.8	422.4
52.5°	336.4	347.8	369.8	396.6	409.0
55°	312.5	323.9	352.6	380.3	393.7
57.5°	285.7	301.0	332.5	364.1	378.4
60°	260.9	275.2	313.4	347.8	362.2
62.5°	234.1	253.2	294.3	330.6	345.0
65°	206.4	227.4	274.3	310.6	324.9
67.5°	181.6	204.5	254.2	290.5	304.8
70°	151.9	180.6	232.2	268.5	282.9
72.5°	124.2	155.8	209.3	244.6	258.0
75°	97.5	132.8	185.4	216.9	223.6
77.5°	72.6	109.9	160.5	173.9	169.1
80°	51.6	87.9	125.2	118.5	121.4
82.5°	33.4	66.9	77.4	87.9	90.8
85°	19.1	39.2	47.8	51.6	53.5
87.5°	8.6	14.3	19.1	19.1	18.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)