

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: P277115

Luminaire Tested: **24CZ2-30-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P277115  
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-L92765-W2A1-U-6500K  
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1831.8 lumens  
Efficiency: N/A  
Efficacy: 80.4 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

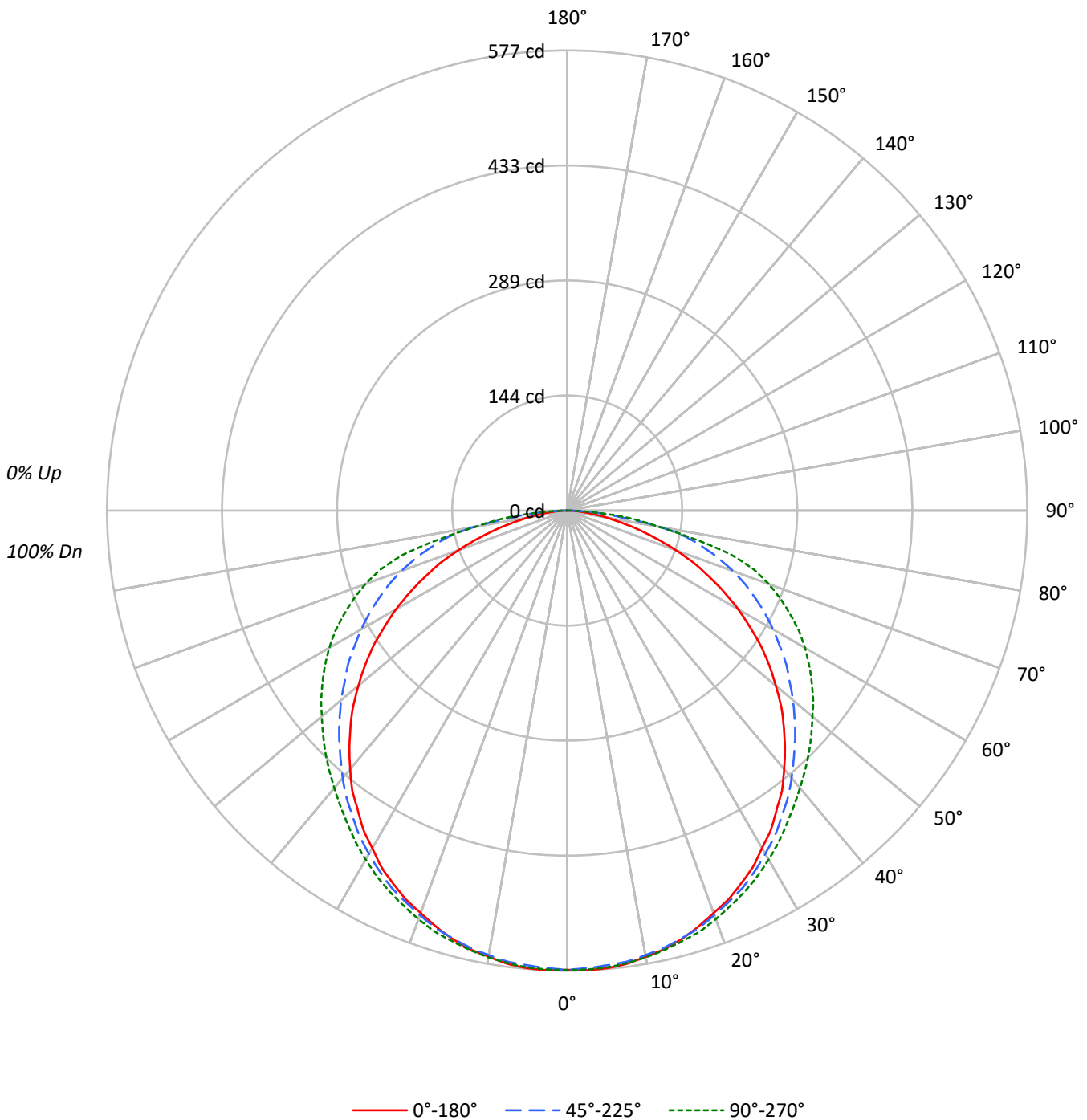
Input Watts (W): 22.785  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	67	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°	775	775	775
5°	778	773	777
10°	776	773	777
15°	774	773	778
20°	769	773	780
25°	766	774	782
30°	759	772	785
35°	752	770	788
40°	744	769	798
45°	731	769	816
50°	715	774	841
55°	697	787	878
60°	667	802	927
65°	625	830	983
70°	568	869	1058
75°	482	917	1105
80°	380	922	894
85°	281	701	786



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.6	3.0
10°-20°	157.3	8.6
20°-30°	240.5	13.1
30°-40°	294.0	16.0
40°-50°	313.3	17.1
50°-60°	299.6	16.4
60°-70°	253.8	13.9
70°-80°	170.6	9.3
80°-90°	48.1	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°	452.4	24.7
0°-40°	746.4	40.7
0°-60°	1359.3	74.2
0°-90°	1831.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1831.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	576	576	576	576	576	
5°	576	575	572	575	575	55
15°	556	556	555	560	559	157
25°	516	518	522	526	527	238
35°	458	462	469	478	480	287
45°	384	391	404	422	429	296
55°	297	308	335	362	374	265
65°	196	216	261	295	309	195
75°	93	126	176	206	213	99
85°	18	37	45	49	51	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	576.0	576.0	576.0	576.0	576.0
2.5°	576.9	576.9	574.2	576.0	576.0
5°	576.0	575.1	572.4	575.1	575.1
7.5°	573.3	572.4	570.6	573.3	572.4
10°	567.9	567.9	566.0	568.8	568.8
12.5°	563.3	562.4	561.5	565.1	564.2
15°	556.0	556.0	555.1	559.7	558.8
17.5°	547.0	547.9	548.8	552.4	553.3
20°	537.0	538.8	539.7	545.1	545.1
22.5°	527.9	528.8	530.6	536.1	536.1
25°	516.1	517.9	521.5	526.1	527.0
27.5°	504.3	505.2	509.7	516.1	517.0
30°	488.8	491.5	497.0	504.3	505.2
32.5°	475.2	477.9	484.3	491.5	493.4
35°	457.9	461.6	468.8	477.9	479.7
37.5°	442.5	445.2	454.3	464.3	467.0
40°	423.4	428.8	437.9	449.7	454.3
42.5°	404.3	409.8	420.7	436.1	441.6
45°	384.3	390.7	404.3	421.6	428.8
47.5°	364.3	371.6	387.1	407.0	415.2
50°	341.6	350.7	369.8	392.5	401.6
52.5°	319.8	330.7	351.6	377.1	388.9
55°	297.1	308.0	335.3	361.6	374.3
57.5°	271.7	286.2	316.2	346.2	359.8
60°	248.0	261.7	298.0	330.7	344.3
62.5°	222.6	240.8	279.8	314.4	328.0
65°	196.3	216.2	260.8	295.3	308.9
67.5°	172.6	194.4	241.7	276.2	289.8
70°	144.5	171.7	220.8	255.3	268.9
72.5°	118.1	148.1	199.0	232.6	245.3
75°	92.7	126.3	176.3	206.2	212.6
77.5°	69.1	104.5	152.6	165.4	160.8
80°	49.1	83.6	119.0	112.7	115.4
82.5°	31.8	63.6	73.6	83.6	86.3
85°	18.2	37.3	45.4	49.1	50.9
87.5°	8.2	13.6	18.2	18.2	17.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)