

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: P276864

Luminaire Tested: **24CZ2-35-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P276864  
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: 24CZ2-35-RDP-UNV-L93050-W2A1-U-4000K  
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2077.5 lumens  
Efficiency: N/A  
Efficacy: 77.8 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

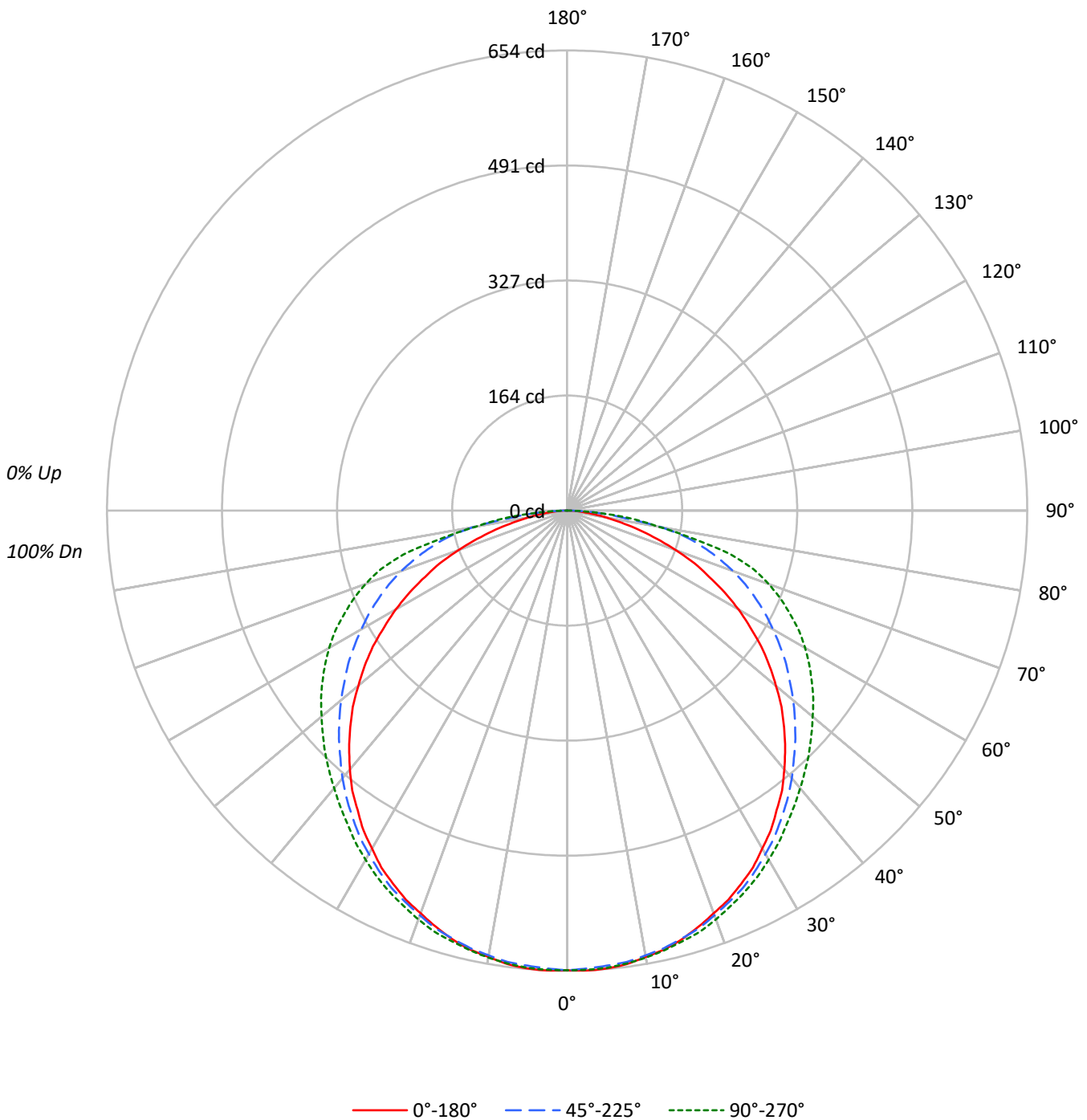
Input Watts (W): 26.71704  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	879	879	879
5°	882	877	881
10°	880	877	881
15°	879	877	883
20°	872	876	885
25°	869	878	887
30°	861	876	890
35°	853	873	894
40°	843	872	905
45°	829	873	926
50°	811	878	953
55°	791	892	996
60°	757	910	1051
65°	709	941	1116
70°	644	985	1200
75°	546	1039	1253
80°	431	1046	1014
85°	318	795	891



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.0	3.0
10°-20°	178.4	8.6
20°-30°	272.8	13.1
30°-40°	333.4	16.0
40°-50°	355.4	17.1
50°-60°	339.8	16.4
60°-70°	287.8	13.9
70°-80°	193.4	9.3
80°-90°	54.6	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°	513.1	24.7
0°-40°	846.5	40.7
0°-60°	1541.7	74.2
0°-90°	2077.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2077.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	653	653	653	653	653	
5°	653	652	649	652	652	62
15°	631	631	630	635	634	178
25°	585	587	592	597	598	270
35°	519	524	532	542	544	325
45°	436	443	459	478	486	336
55°	337	349	380	410	425	300
65°	223	245	296	335	350	221
75°	105	143	200	234	241	113
85°	21	42	52	56	58	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	653.3	653.3	653.3	653.3	653.3
2.5°	654.4	654.4	651.3	653.3	653.3
5°	653.3	652.3	649.2	652.3	652.3
7.5°	650.2	649.2	647.1	650.2	649.2
10°	644.1	644.1	642.0	645.1	645.1
12.5°	638.9	637.9	636.8	641.0	639.9
15°	630.7	630.7	629.6	634.8	633.7
17.5°	620.4	621.4	622.4	626.5	627.6
20°	609.0	611.1	612.1	618.3	618.3
22.5°	598.7	599.7	601.8	608.0	608.0
25°	585.3	587.4	591.5	596.7	597.7
27.5°	571.9	573.0	578.1	585.3	586.3
30°	554.4	557.5	563.7	571.9	573.0
32.5°	538.9	542.0	549.2	557.5	559.6
35°	519.4	523.5	531.7	542.0	544.1
37.5°	501.8	504.9	515.2	526.6	529.7
40°	480.2	486.4	496.7	510.1	515.2
42.5°	458.6	464.7	477.1	494.6	500.8
45°	435.9	443.1	458.6	478.1	486.4
47.5°	413.2	421.5	439.0	461.7	470.9
50°	387.5	397.8	419.4	445.2	455.5
52.5°	362.7	375.1	398.8	427.7	441.0
55°	337.0	349.3	380.2	410.1	424.6
57.5°	308.1	324.6	358.6	392.6	408.1
60°	281.3	296.8	338.0	375.1	390.6
62.5°	252.5	273.1	317.4	356.5	372.0
65°	222.6	245.3	295.7	334.9	350.4
67.5°	195.8	220.5	274.1	313.3	328.7
70°	163.8	194.8	250.4	289.6	305.0
72.5°	134.0	168.0	225.7	263.8	278.2
75°	105.1	143.2	199.9	233.9	241.1
77.5°	78.3	118.5	173.1	187.5	182.4
80°	55.6	94.8	135.0	127.8	130.9
82.5°	36.1	72.1	83.5	94.8	97.9
85°	20.6	42.2	51.5	55.6	57.7
87.5°	9.3	15.5	20.6	20.6	19.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)