

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: P276784

Luminaire Tested: **24CZ2-30-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P276784  
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-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: 2026.0 lumens  
Efficiency: N/A  
Efficacy: 91.0 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

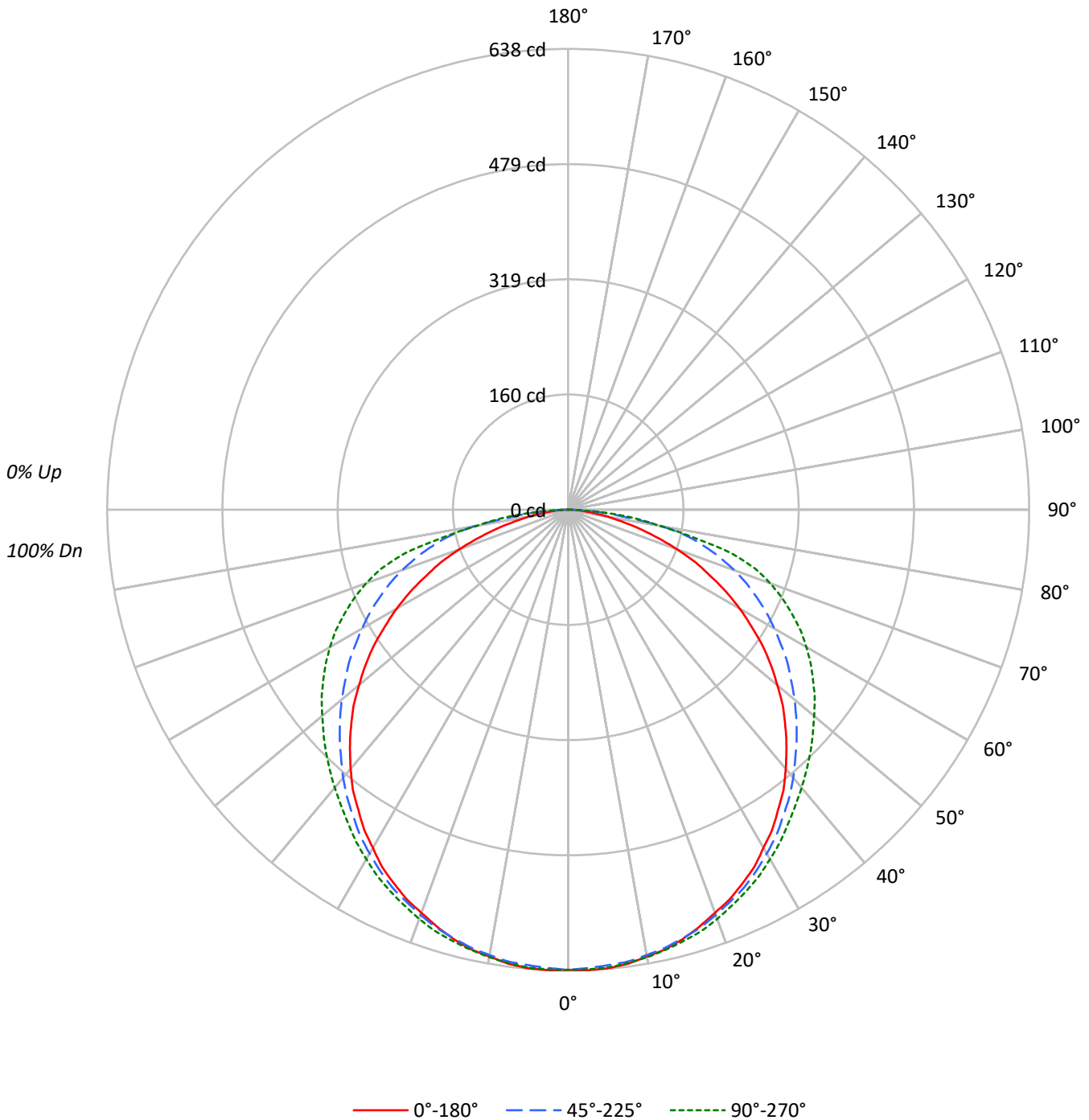
Input Watts (W): 22.262526  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	857	857	857
5°	860	855	859
10°	858	855	860
15°	857	855	861
20°	850	855	863
25°	847	856	865
30°	840	854	868
35°	832	852	872
40°	823	851	883
45°	809	851	903
50°	791	856	930
55°	771	870	971
60°	738	887	1025
65°	691	918	1088
70°	629	961	1170
75°	533	1014	1223
80°	421	1020	989
85°	310	775	869



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.4	3.0
10°-20°	173.9	8.6
20°-30°	266.0	13.1
30°-40°	325.2	16.0
40°-50°	346.6	17.1
50°-60°	331.3	16.4
60°-70°	280.7	13.9
70°-80°	188.7	9.3
80°-90°	53.2	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°	500.4	24.7
0°-40°	825.5	40.7
0°-60°	1503.4	74.2
0°-90°	2026.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2026.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	637	637	637	637	637	
5°	637	636	633	636	636	61
15°	615	615	614	619	618	173
25°	571	573	577	582	583	263
35°	506	510	518	529	531	317
45°	425	432	447	466	474	328
55°	329	341	371	400	414	293
65°	217	239	288	327	342	215
75°	102	140	195	228	235	110
85°	20	41	50	54	56	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	637.1	637.1	637.1	637.1	637.1
2.5°	638.1	638.1	635.1	637.1	637.1
5°	637.1	636.1	633.1	636.1	636.1
7.5°	634.1	633.1	631.1	634.1	633.1
10°	628.1	628.1	626.1	629.1	629.1
12.5°	623.1	622.0	621.0	625.1	624.1
15°	615.0	615.0	614.0	619.0	618.0
17.5°	605.0	606.0	607.0	611.0	612.0
20°	593.9	595.9	596.9	603.0	603.0
22.5°	583.9	584.9	586.9	592.9	592.9
25°	570.8	572.8	576.8	581.8	582.9
27.5°	557.7	558.7	563.8	570.8	571.8
30°	540.6	543.7	549.7	557.7	558.7
32.5°	525.6	528.6	535.6	543.7	545.7
35°	506.5	510.5	518.5	528.6	530.6
37.5°	489.4	492.4	502.5	513.5	516.5
40°	468.3	474.3	484.4	497.4	502.5
42.5°	447.2	453.2	465.3	482.4	488.4
45°	425.1	432.1	447.2	466.3	474.3
47.5°	403.0	411.0	428.1	450.2	459.2
50°	377.8	387.9	409.0	434.1	444.2
52.5°	353.7	365.8	388.9	417.0	430.1
55°	328.6	340.7	370.8	400.0	414.0
57.5°	300.5	316.5	349.7	382.9	397.9
60°	274.3	289.4	329.6	365.8	380.9
62.5°	246.2	266.3	309.5	347.7	362.8
65°	217.1	239.2	288.4	326.6	341.7
67.5°	190.9	215.1	267.3	305.5	320.6
70°	159.8	189.9	244.2	282.4	297.5
72.5°	130.6	163.8	220.1	257.3	271.3
75°	102.5	139.7	195.0	228.1	235.2
77.5°	76.4	115.6	168.8	182.9	177.9
80°	54.3	92.5	131.6	124.6	127.6
82.5°	35.2	70.3	81.4	92.5	95.5
85°	20.1	41.2	50.2	54.3	56.3
87.5°	9.0	15.1	20.1	20.1	19.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)