

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: P276867

Luminaire Tested: **24CZ2-40-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P276867  
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: 24CZ2-40-RDP-UNV-L93050-W2A1-U-3000K  
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2003.8 lumens  
Efficiency: N/A  
Efficacy: 64.4 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

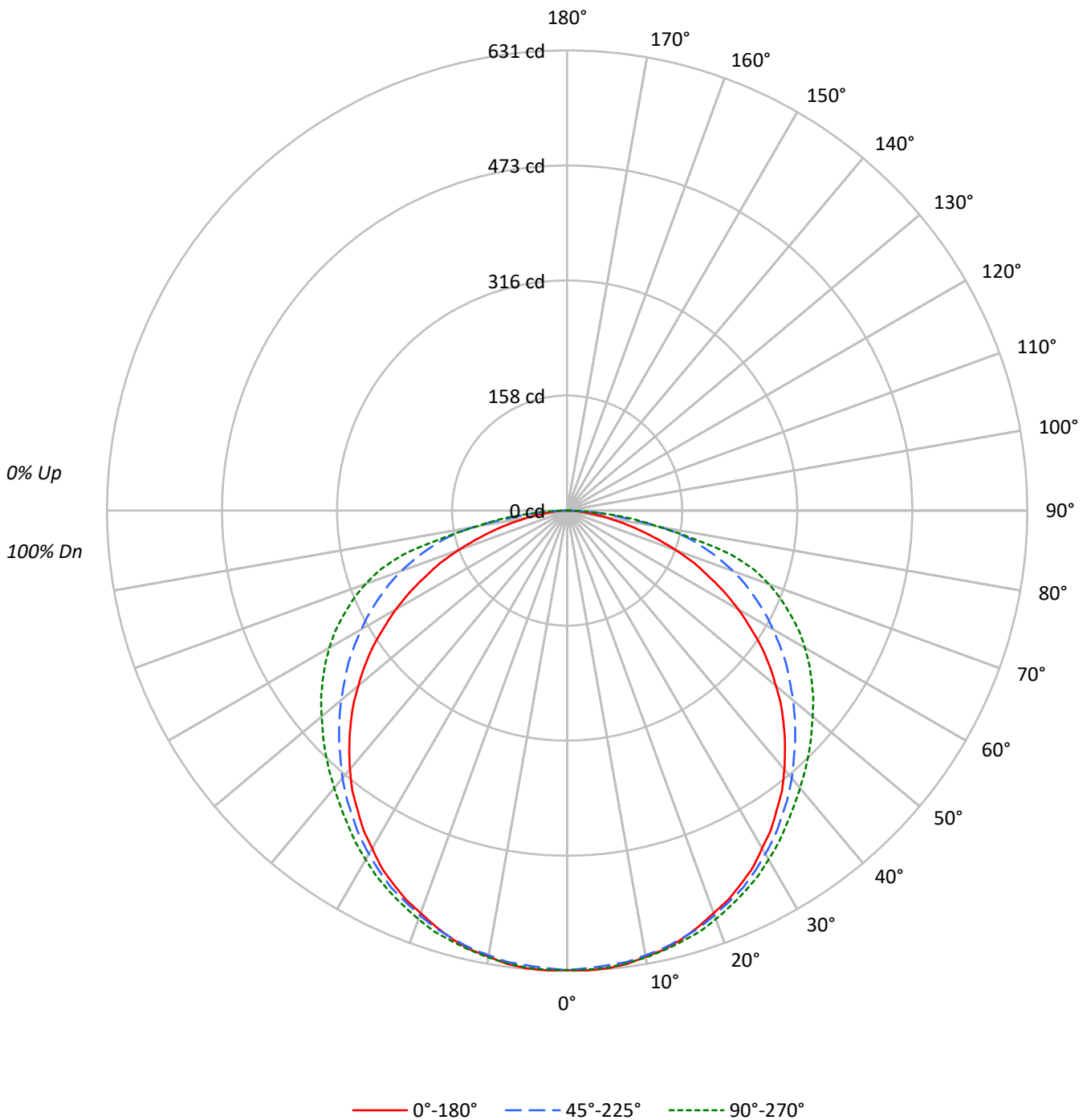
Input Watts (W): 31.110453  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	848	848	848
5°	851	846	850
10°	849	846	850
15°	847	846	851
20°	841	845	854
25°	838	847	856
30°	831	845	859
35°	823	842	862
40°	814	841	873
45°	800	842	893
50°	782	847	920
55°	762	860	961
60°	730	877	1014
65°	684	908	1076
70°	622	950	1157
75°	527	1002	1209
80°	416	1009	978
85°	307	767	860



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.8	3.0
10°-20°	172.0	8.6
20°-30°	263.1	13.1
30°-40°	321.6	16.0
40°-50°	342.8	17.1
50°-60°	327.7	16.4
60°-70°	277.6	13.9
70°-80°	186.6	9.3
80°-90°	52.6	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°	494.9	24.7
0°-40°	816.5	40.7
0°-60°	1486.9	74.2
0°-90°	2003.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2003.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	630	630	630	630	630	
5°	630	629	626	629	629	60
15°	608	608	607	612	611	172
25°	564	566	570	576	576	260
35°	501	505	513	523	525	314
45°	420	427	442	461	469	324
55°	325	337	367	396	410	289
65°	215	236	285	323	338	213
75°	101	138	193	226	233	109
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°	630.1	630.1	630.1	630.1	630.1
2.5°	631.1	631.1	628.1	630.1	630.1
5°	630.1	629.1	626.1	629.1	629.1
7.5°	627.1	626.1	624.2	627.1	626.1
10°	621.2	621.2	619.2	622.2	622.2
12.5°	616.2	615.2	614.2	618.2	617.2
15°	608.3	608.3	607.3	612.2	611.2
17.5°	598.3	599.3	600.3	604.3	605.3
20°	587.4	589.4	590.4	596.3	596.3
22.5°	577.4	578.4	580.4	586.4	586.4
25°	564.5	566.5	570.5	575.5	576.5
27.5°	551.6	552.6	557.6	564.5	565.5
30°	534.7	537.7	543.7	551.6	552.6
32.5°	519.8	522.8	529.7	537.7	539.7
35°	500.9	504.9	512.8	522.8	524.8
37.5°	484.0	487.0	496.9	507.9	510.9
40°	463.2	469.1	479.1	492.0	496.9
42.5°	442.3	448.2	460.2	477.1	483.0
45°	420.4	427.4	442.3	461.2	469.1
47.5°	398.5	406.5	423.4	445.3	454.2
50°	373.7	383.6	404.5	429.4	439.3
52.5°	349.8	361.8	384.6	412.5	425.4
55°	325.0	336.9	366.7	395.6	409.5
57.5°	297.2	313.1	345.9	378.7	393.6
60°	271.3	286.2	326.0	361.8	376.7
62.5°	243.5	263.4	306.1	343.9	358.8
65°	214.7	236.5	285.2	323.0	337.9
67.5°	188.8	212.7	264.4	302.1	317.0
70°	158.0	187.8	241.5	279.3	294.2
72.5°	129.2	162.0	217.7	254.4	268.3
75°	101.4	138.2	192.8	225.6	232.6
77.5°	75.5	114.3	167.0	180.9	175.9
80°	53.7	91.4	130.2	123.2	126.2
82.5°	34.8	69.6	80.5	91.4	94.4
85°	19.9	40.7	49.7	53.7	55.7
87.5°	8.9	14.9	19.9	19.9	18.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)