

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: P277126

Luminaire Tested: **24CZ2-40-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P277126  
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-L92765-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: 2099.0 lumens  
Efficiency: N/A  
Efficacy: 69.7 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

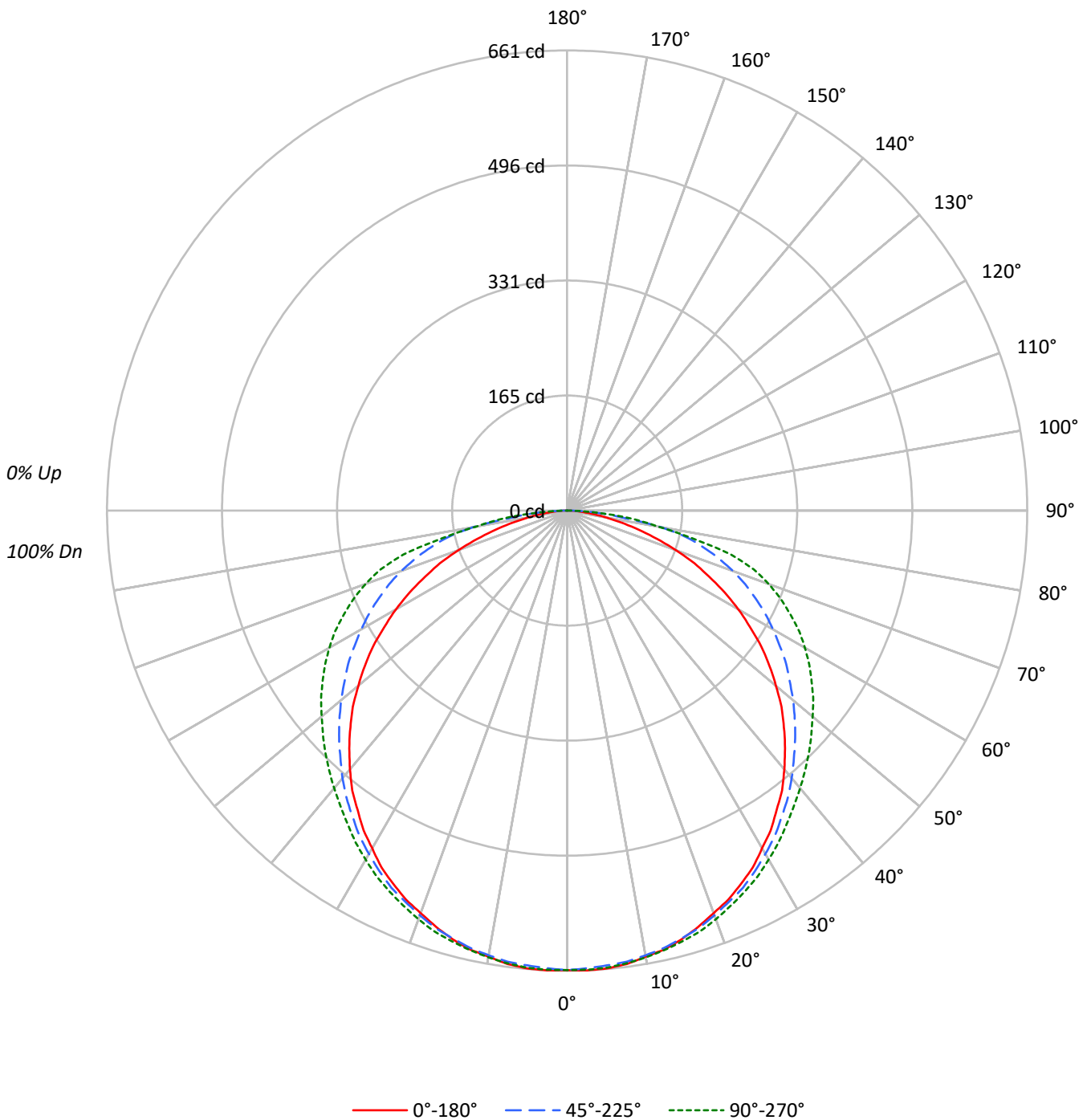
Input Watts (W): 30.132  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	888	888	888
5°	892	886	890
10°	889	886	890
15°	888	886	892
20°	881	885	894
25°	878	887	896
30°	870	885	899
35°	862	882	903
40°	852	881	914
45°	838	882	935
50°	819	887	963
55°	799	901	1006
60°	765	919	1062
65°	716	951	1127
70°	651	995	1212
75°	552	1050	1266
80°	435	1057	1024
85°	321	804	900



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.6	3.0
10°-20°	180.2	8.6
20°-30°	275.6	13.1
30°-40°	336.9	16.0
40°-50°	359.0	17.1
50°-60°	343.3	16.4
60°-70°	290.8	13.9
70°-80°	195.4	9.3
80°-90°	55.1	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°	518.4	24.7
0°-40°	855.2	40.7
0°-60°	1557.6	74.2
0°-90°	2099.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2099.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	660	660	660	660	660	
5°	660	659	656	659	659	63
15°	637	637	636	641	640	180
25°	591	593	598	603	604	273
35°	525	529	537	548	550	329
45°	440	448	463	483	491	340
55°	340	353	384	414	429	303
65°	225	248	299	338	354	223
75°	106	145	202	236	244	114
85°	21	43	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°	660.1	660.1	660.1	660.1	660.1
2.5°	661.1	661.1	658.0	660.1	660.1
5°	660.1	659.0	655.9	659.0	659.0
7.5°	656.9	655.9	653.8	656.9	655.9
10°	650.7	650.7	648.6	651.7	651.7
12.5°	645.5	644.4	643.4	647.6	646.5
15°	637.2	637.2	636.1	641.3	640.3
17.5°	626.8	627.8	628.8	633.0	634.0
20°	615.3	617.4	618.4	624.7	624.7
22.5°	604.9	605.9	608.0	614.3	614.3
25°	591.4	593.4	597.6	602.8	603.8
27.5°	577.8	578.9	584.1	591.4	592.4
30°	560.1	563.2	569.5	577.8	578.9
32.5°	544.5	547.6	554.9	563.2	565.3
35°	524.7	528.9	537.2	547.6	549.7
37.5°	507.0	510.1	520.6	532.0	535.1
40°	485.2	491.4	501.8	515.4	520.6
42.5°	463.3	469.5	482.0	499.7	506.0
45°	440.4	447.7	463.3	483.1	491.4
47.5°	417.5	425.8	443.5	466.4	475.8
50°	391.5	401.9	423.7	449.8	460.2
52.5°	366.5	379.0	402.9	432.1	445.6
55°	340.4	352.9	384.2	414.4	428.9
57.5°	311.3	328.0	362.3	396.7	412.3
60°	284.2	299.8	341.5	379.0	394.6
62.5°	255.1	275.9	320.7	360.2	375.8
65°	224.9	247.8	298.8	338.4	354.0
67.5°	197.8	222.8	276.9	316.5	332.1
70°	165.5	196.8	253.0	292.6	308.2
72.5°	135.3	169.7	228.0	266.5	281.1
75°	106.2	144.7	202.0	236.3	243.6
77.5°	79.1	119.7	174.9	189.5	184.3
80°	56.2	95.8	136.4	129.1	132.2
82.5°	36.4	72.9	84.3	95.8	98.9
85°	20.8	42.7	52.1	56.2	58.3
87.5°	9.4	15.6	20.8	20.8	19.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)