

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: P277127

Luminaire Tested: **24CZ2-40-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277127
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-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2203.3 lumens
Efficiency: N/A
Efficacy: 72.2 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

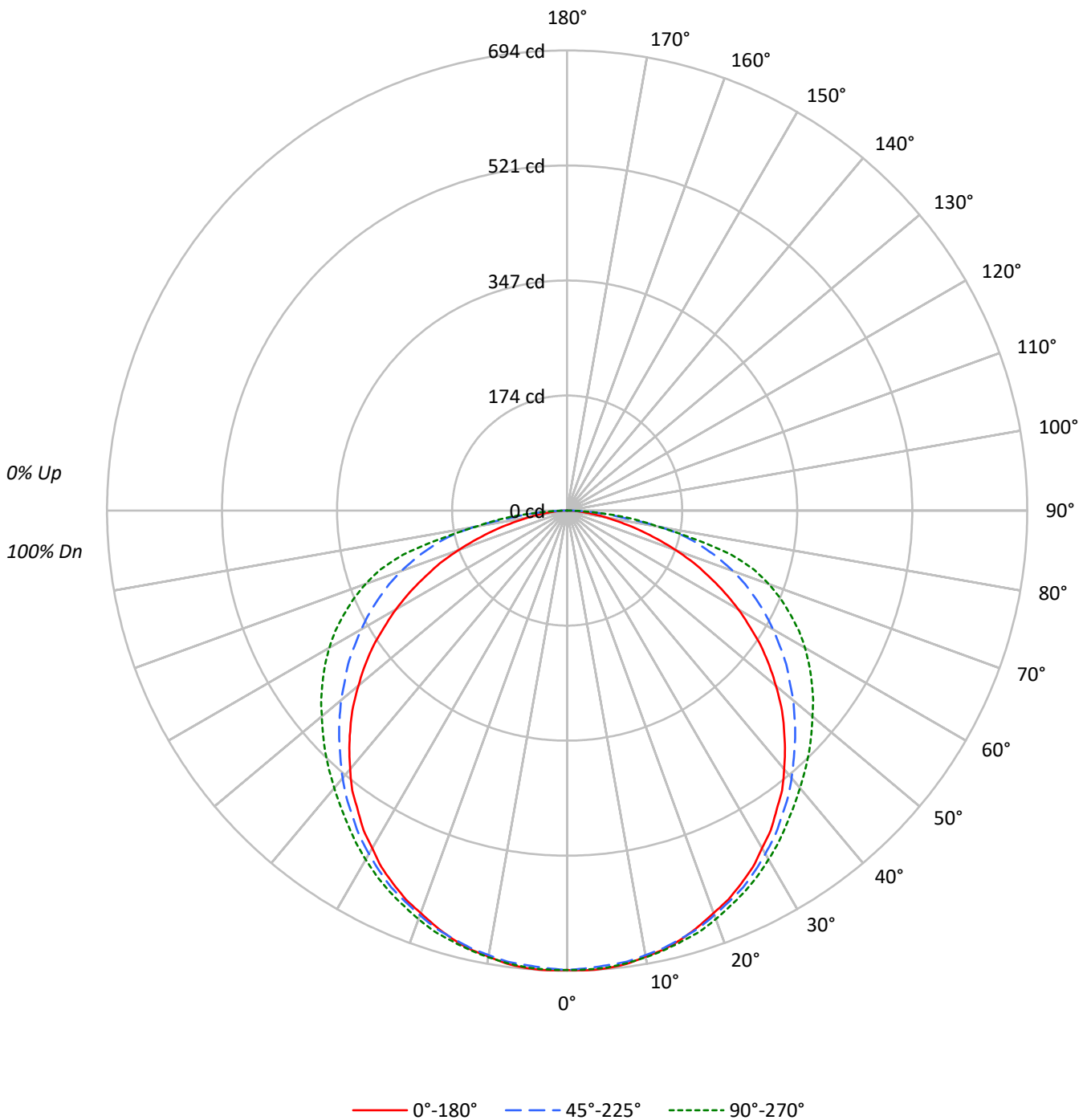
Input Watts (W): 30.504
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	932	932	932
5°	936	930	934
10°	933	930	935
15°	932	930	936
20°	925	930	939
25°	922	931	941
30°	914	929	944
35°	905	926	948
40°	895	925	960
45°	880	925	981
50°	860	931	1011
55°	838	946	1056
60°	803	965	1115
65°	752	999	1183
70°	684	1045	1273
75°	580	1102	1329
80°	457	1110	1075
85°	338	843	945



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.7	3.0
10°-20°	189.2	8.6
20°-30°	289.3	13.1
30°-40°	353.6	16.0
40°-50°	376.9	17.1
50°-60°	360.4	16.4
60°-70°	305.3	13.9
70°-80°	205.2	9.3
80°-90°	57.9	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°	544.1	24.7
0°-40°	897.8	40.7
0°-60°	1635.0	74.2
0°-90°	2203.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2203.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	693	693	693	693	693	
5°	693	692	688	692	692	66
15°	669	669	668	673	672	189
25°	621	623	627	633	634	286
35°	551	555	564	575	577	345
45°	462	470	486	507	516	357
55°	357	370	403	435	450	318
65°	236	260	314	355	372	234
75°	112	152	212	248	256	119
85°	22	45	55	59	61	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	692.9	692.9	692.9	692.9	692.9
2.5°	694.0	694.0	690.7	692.9	692.9
5°	692.9	691.8	688.5	691.8	691.8
7.5°	689.6	688.5	686.3	689.6	688.5
10°	683.0	683.0	680.9	684.1	684.1
12.5°	677.6	676.5	675.4	679.8	678.7
15°	668.8	668.8	667.7	673.2	672.1
17.5°	657.9	659.0	660.1	664.5	665.6
20°	645.9	648.1	649.2	655.7	655.7
22.5°	635.0	636.1	638.2	644.8	644.8
25°	620.8	622.9	627.3	632.8	633.9
27.5°	606.5	607.6	613.1	620.8	621.8
30°	588.0	591.2	597.8	606.5	607.6
32.5°	571.6	574.8	582.5	591.2	593.4
35°	550.8	555.2	563.9	574.8	577.0
37.5°	532.2	535.5	546.4	558.5	561.7
40°	509.3	515.8	526.8	541.0	546.4
42.5°	486.3	492.9	506.0	524.6	531.1
45°	462.3	469.9	486.3	507.1	515.8
47.5°	438.2	447.0	465.6	489.6	499.4
50°	410.9	421.8	444.8	472.1	483.0
52.5°	384.7	397.8	422.9	453.5	467.7
55°	357.4	370.5	403.3	435.0	450.3
57.5°	326.8	344.3	380.3	416.4	432.8
60°	298.4	314.7	358.5	397.8	414.2
62.5°	267.8	289.6	336.6	378.1	394.5
65°	236.1	260.1	313.7	355.2	371.6
67.5°	207.6	233.9	290.7	332.2	348.6
70°	173.8	206.6	265.6	307.1	323.5
72.5°	142.1	178.1	239.3	279.8	295.1
75°	111.5	151.9	212.0	248.1	255.7
77.5°	83.1	125.7	183.6	198.9	193.4
80°	59.0	100.5	143.2	135.5	138.8
82.5°	38.3	76.5	88.5	100.5	103.8
85°	21.9	44.8	54.6	59.0	61.2
87.5°	9.8	16.4	21.9	21.9	20.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)