

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: P277118

Luminaire Tested: **24CZ2-35-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277118
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-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: 1936.1 lumens
Efficiency: N/A
Efficacy: 74.1 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

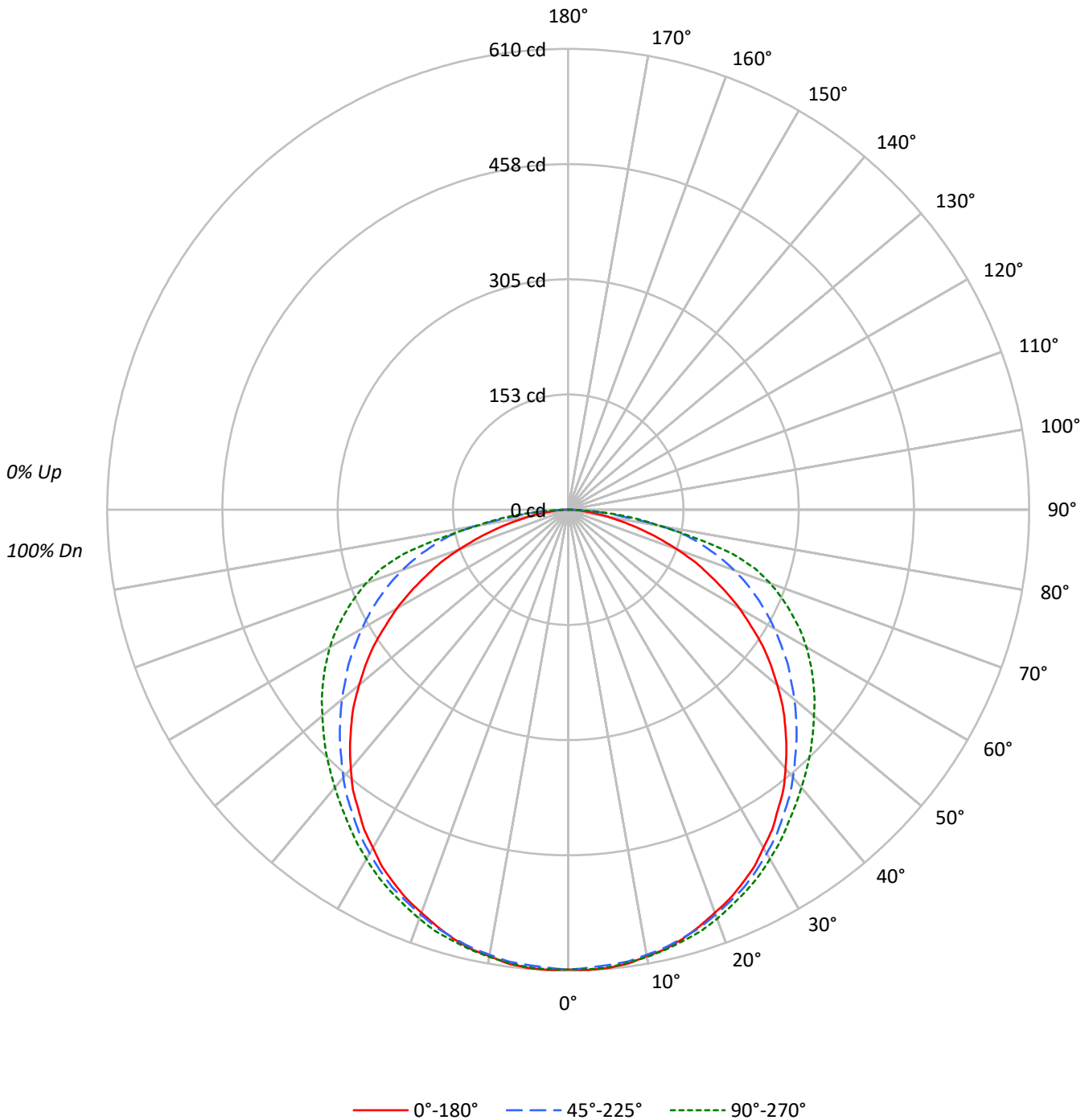
Input Watts (W): 26.133
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	819	819	819
5°	822	817	821
10°	820	817	821
15°	819	817	823
20°	813	817	825
25°	810	818	827
30°	803	816	829
35°	795	814	833
40°	786	813	843
45°	773	813	863
50°	756	818	889
55°	737	831	928
60°	706	848	980
65°	660	877	1039
70°	601	918	1118
75°	509	968	1168
80°	402	975	945
85°	296	741	831



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.8	3.0
10°-20°	166.2	8.6
20°-30°	254.2	13.1
30°-40°	310.7	16.0
40°-50°	331.2	17.1
50°-60°	316.7	16.4
60°-70°	268.2	13.9
70°-80°	180.3	9.3
80°-90°	50.8	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°	478.2	24.7
0°-40°	788.9	40.7
0°-60°	1436.7	74.2
0°-90°	1936.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1936.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	609	609	609	609	609	
5°	609	608	605	608	608	58
15°	588	588	587	592	591	166
25°	546	547	551	556	557	251
35°	484	488	496	505	507	303
45°	406	413	427	446	453	313
55°	314	326	354	382	396	280
65°	207	229	276	312	326	206
75°	98	134	186	218	225	105
85°	19	39	48	52	54	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	608.8	608.8	608.8	608.8	608.8
2.5°	609.8	609.8	606.9	608.8	608.8
5°	608.8	607.9	605.0	607.9	607.9
7.5°	606.0	605.0	603.1	606.0	605.0
10°	600.2	600.2	598.3	601.2	601.2
12.5°	595.4	594.4	593.5	597.3	596.4
15°	587.7	587.7	586.8	591.6	590.6
17.5°	578.1	579.1	580.0	583.9	584.8
20°	567.6	569.5	570.4	576.2	576.2
22.5°	557.9	558.9	560.8	566.6	566.6
25°	545.5	547.4	551.2	556.0	557.0
27.5°	533.0	533.9	538.7	545.5	546.4
30°	516.7	519.5	525.3	533.0	533.9
32.5°	502.2	505.1	511.9	519.5	521.5
35°	484.0	487.8	495.5	505.1	507.1
37.5°	467.7	470.6	480.2	490.7	493.6
40°	447.5	453.3	462.9	475.4	480.2
42.5°	427.3	433.1	444.6	461.0	466.7
45°	406.2	412.9	427.3	445.6	453.3
47.5°	385.1	392.8	409.1	430.2	438.9
50°	361.1	370.7	390.9	414.9	424.5
52.5°	338.0	349.6	371.6	398.5	411.0
55°	314.0	325.6	354.4	382.2	395.7
57.5°	287.1	302.5	334.2	365.9	380.3
60°	262.2	276.6	315.0	349.6	364.0
62.5°	235.3	254.5	295.8	332.3	346.7
65°	207.4	228.6	275.6	312.1	326.5
67.5°	182.5	205.5	255.4	291.9	306.3
70°	152.7	181.5	233.4	269.9	284.3
72.5°	124.8	156.5	210.3	245.8	259.3
75°	98.0	133.5	186.3	218.0	224.7
77.5°	73.0	110.4	161.3	174.8	170.0
80°	51.9	88.3	125.8	119.1	122.0
82.5°	33.6	67.2	77.8	88.3	91.2
85°	19.2	39.4	48.0	51.9	53.8
87.5°	8.6	14.4	19.2	19.2	18.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)