

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: P263867

Luminaire Tested: **24CZ-LD5-30SE-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263867
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-30SE-RDP-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1652.0 lumens
Efficiency: N/A
Efficacy: 76.2 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

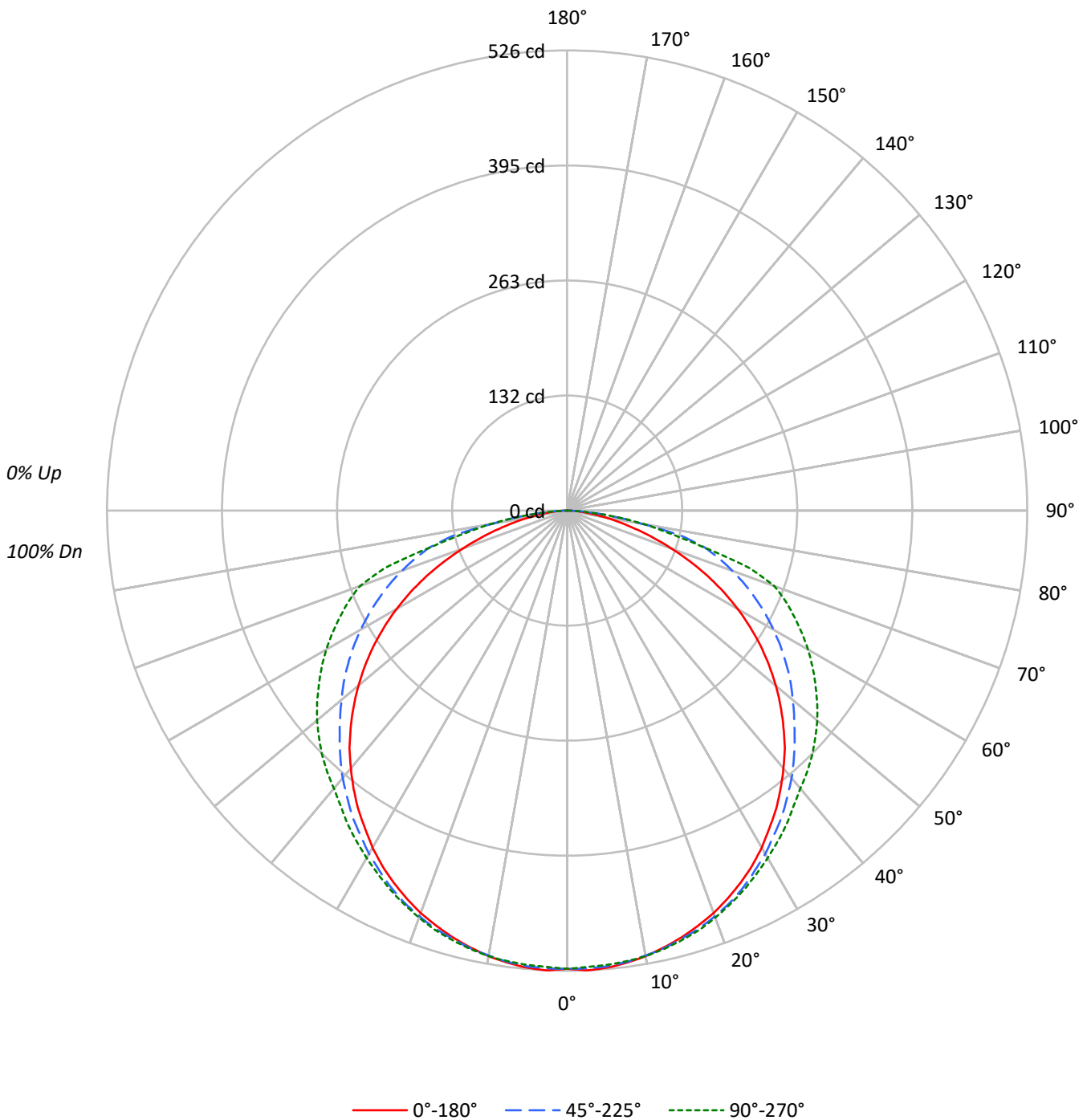
Input Watts (W): 21.669
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	705	705	705
5°	708	706	704
10°	707	706	707
15°	703	706	708
20°	701	707	709
25°	697	706	710
30°	691	704	712
35°	684	703	719
40°	676	701	728
45°	665	699	754
50°	652	705	781
55°	633	717	813
60°	606	733	856
65°	564	756	911
70°	499	790	992
75°	418	845	833
80°	334	668	693
85°	264	452	414



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.7	3.0
10°-20°	142.9	8.7
20°-30°	218.3	13.2
30°-40°	266.9	16.2
40°-50°	285.7	17.3
50°-60°	274.1	16.6
60°-70°	231.4	14.0
70°-80°	147.9	9.0
80°-90°	35.0	2.1
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°	411.0	24.9
0°-40°	677.9	41.0
0°-60°	1237.7	74.9
0°-90°	1652.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1652.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	524	524	524	524	524	
5°	524	521	523	522	521	50
15°	505	503	507	508	508	143
25°	469	468	476	477	478	216
35°	416	420	428	433	438	260
45°	350	355	368	385	396	270
55°	270	279	306	333	346	241
65°	177	194	238	271	286	175
75°	80	115	163	166	160	87
85°	17	28	29	28	27	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	523.7	523.7	523.7	523.7	523.7
2.5°	526.1	522.9	523.7	523.7	522.1
5°	524.5	521.3	522.9	522.1	521.3
7.5°	521.3	518.8	520.4	520.4	519.6
10°	517.2	514.8	516.4	517.2	517.2
12.5°	511.5	509.9	512.3	512.3	513.1
15°	505.0	503.4	506.6	508.2	508.2
17.5°	497.7	496.9	500.9	501.7	502.6
20°	489.5	488.7	493.6	493.6	495.2
22.5°	479.8	479.0	485.5	485.5	487.1
25°	469.2	468.4	475.7	477.3	478.2
27.5°	457.8	457.0	464.3	466.8	468.4
30°	444.8	444.8	452.9	456.2	458.6
32.5°	430.2	432.6	439.9	444.8	448.1
35°	416.4	419.6	427.7	433.4	437.5
37.5°	400.9	404.2	413.1	420.4	425.3
40°	384.6	388.7	399.3	407.4	414.7
42.5°	368.4	372.4	383.8	396.0	405.8
45°	349.7	355.4	367.6	384.6	396.0
47.5°	331.0	336.7	352.1	373.3	384.6
50°	311.5	318.0	336.7	361.1	373.3
52.5°	291.1	298.4	322.0	348.0	360.2
55°	270.0	278.9	305.8	333.4	346.4
57.5°	248.0	257.8	289.5	318.8	332.6
60°	225.3	237.5	272.4	303.3	318.0
62.5°	201.7	216.3	255.3	287.1	302.5
65°	177.3	194.4	237.5	270.8	286.2
67.5°	152.1	174.8	219.6	254.5	270.0
70°	126.9	153.7	200.9	236.6	252.1
72.5°	103.3	134.2	182.2	215.5	218.7
75°	80.5	114.7	162.6	165.9	160.2
77.5°	60.2	95.1	134.2	119.5	118.7
80°	43.1	76.4	86.2	88.6	89.5
82.5°	28.5	57.7	56.1	57.7	56.9
85°	17.1	28.5	29.3	28.5	26.8
87.5°	8.1	10.6	8.1	7.3	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)