

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: P277107

Luminaire Tested: **24CZ2-30-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277107
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: 24CZ2-30-RDP-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1512.4 lumens
Efficiency: N/A
Efficacy: 69.8 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

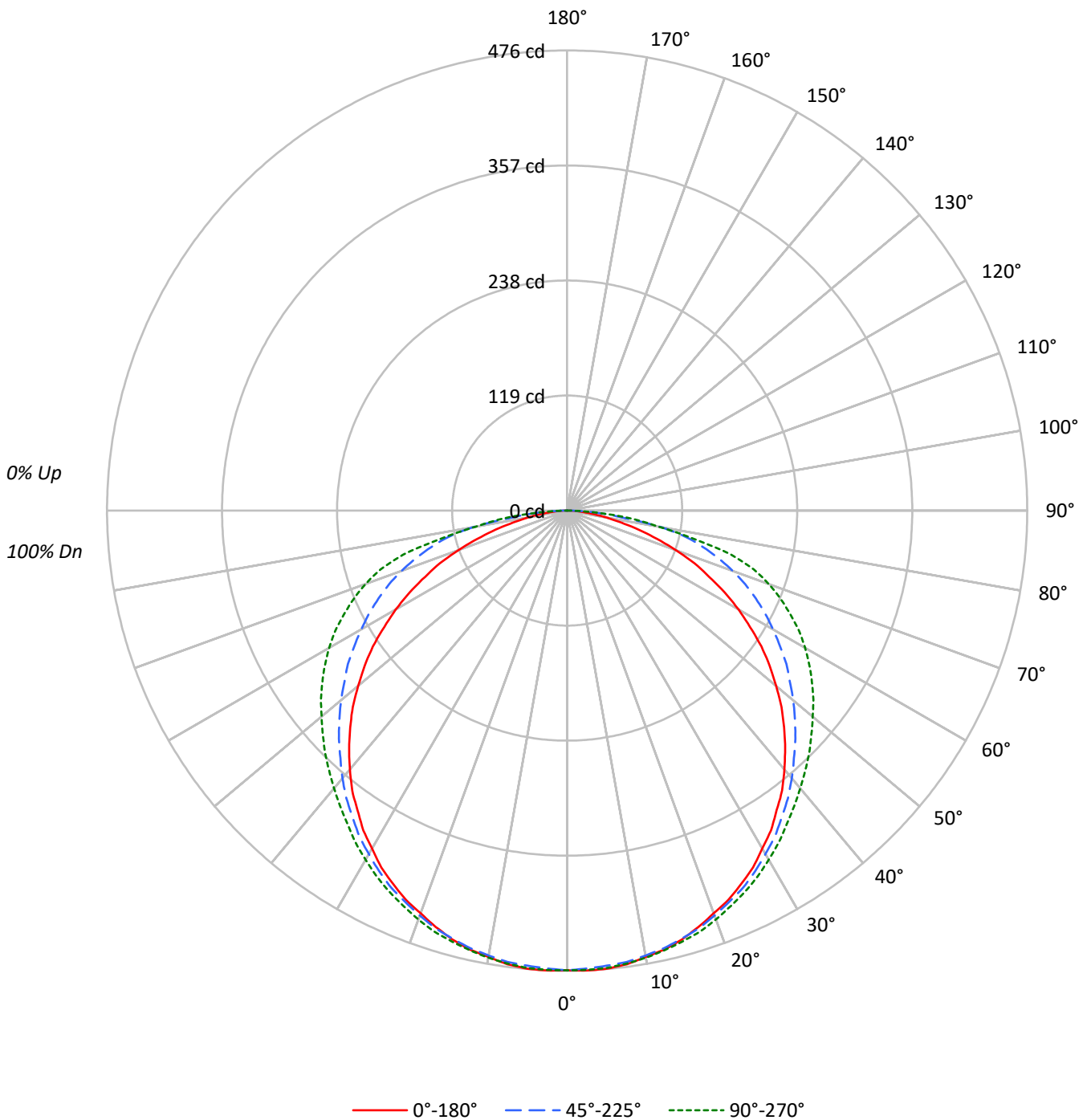
Input Watts (W): 21.669
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	640	640	640
5°	642	638	641
10°	640	638	642
15°	640	638	643
20°	635	638	644
25°	633	639	646
30°	627	637	648
35°	621	636	651
40°	614	635	659
45°	604	635	674
50°	590	639	694
55°	575	649	725
60°	551	662	765
65°	516	685	812
70°	469	717	873
75°	398	756	912
80°	314	762	738
85°	232	579	648



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.1	3.0
10°-20°	129.8	8.6
20°-30°	198.6	13.1
30°-40°	242.7	16.0
40°-50°	258.7	17.1
50°-60°	247.4	16.4
60°-70°	209.5	13.9
70°-80°	140.8	9.3
80°-90°	39.7	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°	373.5	24.7
0°-40°	616.2	40.7
0°-60°	1122.3	74.2
0°-90°	1512.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1512.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	476	476	476	476	476	
5°	476	475	473	475	475	45
15°	459	459	458	462	461	129
25°	426	428	431	434	435	196
35°	378	381	387	395	396	237
45°	317	323	334	348	354	245
55°	245	254	277	299	309	218
65°	162	178	215	244	255	161
75°	76	104	146	170	176	82
85°	15	31	38	40	42	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	475.6	475.6	475.6	475.6	475.6
2.5°	476.3	476.3	474.1	475.6	475.6
5°	475.6	474.8	472.6	474.8	474.8
7.5°	473.3	472.6	471.1	473.3	472.6
10°	468.8	468.8	467.3	469.6	469.6
12.5°	465.1	464.3	463.6	466.6	465.8
15°	459.1	459.1	458.3	462.1	461.3
17.5°	451.6	452.3	453.1	456.1	456.8
20°	443.3	444.8	445.6	450.1	450.1
22.5°	435.8	436.6	438.1	442.6	442.6
25°	426.1	427.6	430.6	434.3	435.1
27.5°	416.3	417.1	420.8	426.1	426.8
30°	403.6	405.8	410.3	416.3	417.1
32.5°	392.3	394.6	399.8	405.8	407.3
35°	378.1	381.1	387.1	394.6	396.1
37.5°	365.3	367.6	375.1	383.3	385.6
40°	349.6	354.1	361.6	371.3	375.1
42.5°	333.8	338.3	347.3	360.1	364.6
45°	317.3	322.6	333.8	348.1	354.1
47.5°	300.8	306.8	319.6	336.1	342.8
50°	282.1	289.6	305.3	324.1	331.6
52.5°	264.1	273.1	290.3	311.3	321.1
55°	245.3	254.3	276.8	298.6	309.1
57.5°	224.3	236.3	261.1	285.8	297.1
60°	204.8	216.0	246.0	273.1	284.3
62.5°	183.8	198.8	231.0	259.6	270.8
65°	162.0	178.5	215.3	243.8	255.0
67.5°	142.5	160.5	199.5	228.0	239.3
70°	119.3	141.8	182.3	210.8	222.0
72.5°	97.5	122.3	164.3	192.0	202.5
75°	76.5	104.3	145.5	170.3	175.5
77.5°	57.0	86.3	126.0	136.5	132.8
80°	40.5	69.0	98.3	93.0	95.3
82.5°	26.3	52.5	60.8	69.0	71.3
85°	15.0	30.8	37.5	40.5	42.0
87.5°	6.8	11.3	15.0	15.0	14.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)