

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: P277112

Luminaire Tested: **24CZ2-30-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277112
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-5000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1784.0 lumens
Efficiency: N/A
Efficacy: 80.3 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

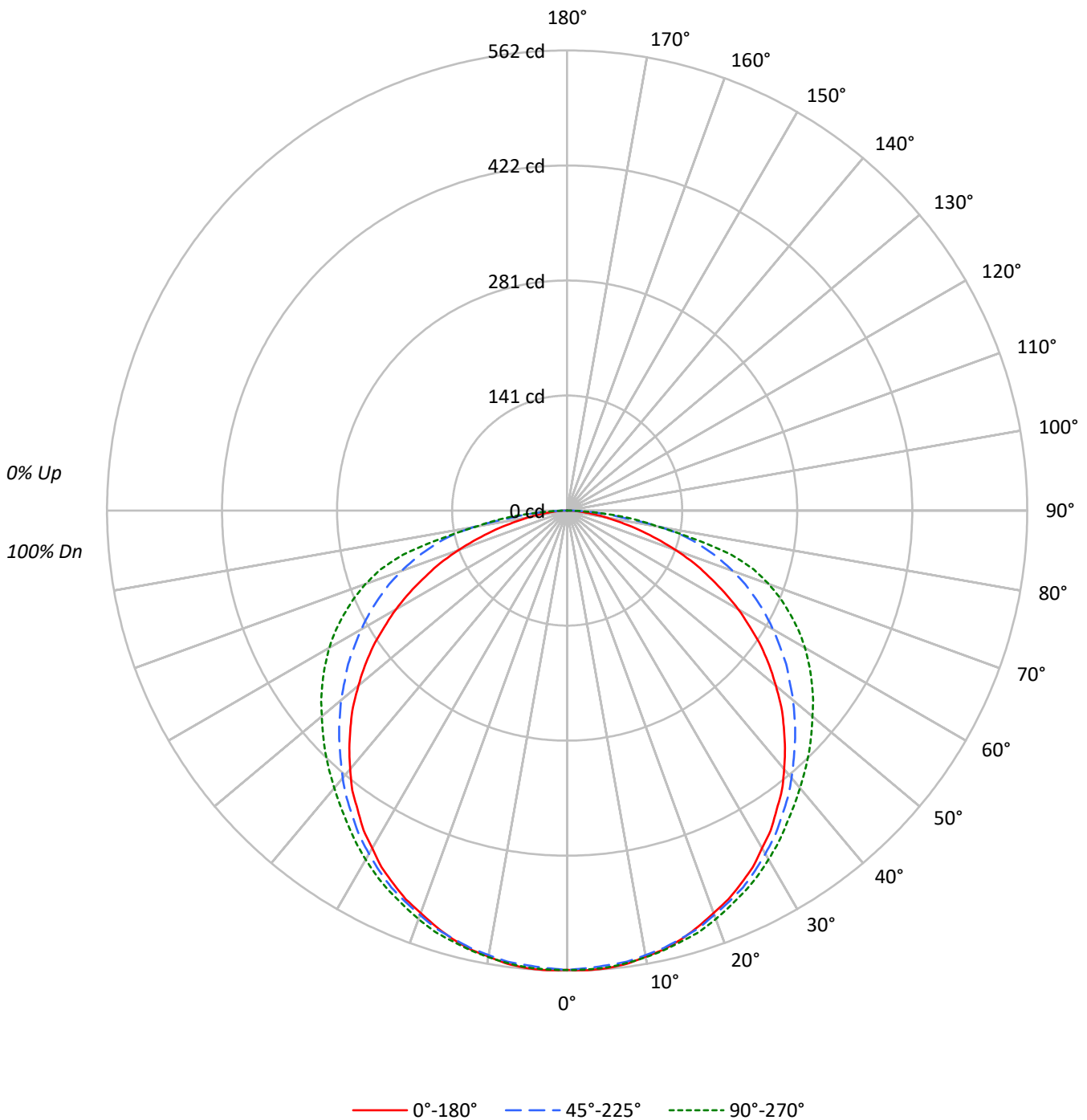
Input Watts (W): 22.227
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	755	755	755
5°	758	753	756
10°	756	753	757
15°	754	753	758
20°	749	753	760
25°	746	754	762
30°	740	752	764
35°	733	750	767
40°	724	749	777
45°	712	749	795
50°	696	754	819
55°	679	766	855
60°	650	781	903
65°	608	809	958
70°	554	846	1030
75°	469	893	1077
80°	370	898	871
85°	273	682	766



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.2	3.0
10°-20°	153.2	8.6
20°-30°	234.2	13.1
30°-40°	286.3	16.0
40°-50°	305.2	17.1
50°-60°	291.8	16.4
60°-70°	247.2	13.9
70°-80°	166.1	9.3
80°-90°	46.9	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°	440.6	24.7
0°-40°	726.9	40.7
0°-60°	1323.9	74.2
0°-90°	1784.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1784.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	561	561	561	561	561	
5°	561	560	558	560	560	53
15°	542	542	541	545	544	153
25°	503	504	508	512	513	232
35°	446	450	457	466	467	279
45°	374	380	394	411	418	289
55°	289	300	326	352	365	258
65°	191	211	254	288	301	190
75°	90	123	172	201	207	97
85°	18	36	44	48	50	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	561.0	561.0	561.0	561.0	561.0
2.5°	561.9	561.9	559.3	561.0	561.0
5°	561.0	560.1	557.5	560.1	560.1
7.5°	558.4	557.5	555.7	558.4	557.5
10°	553.1	553.1	551.3	553.9	553.9
12.5°	548.6	547.8	546.9	550.4	549.5
15°	541.6	541.6	540.7	545.1	544.2
17.5°	532.7	533.6	534.5	538.0	538.9
20°	523.0	524.7	525.6	530.9	530.9
22.5°	514.1	515.0	516.8	522.1	522.1
25°	502.6	504.4	507.9	512.4	513.2
27.5°	491.1	492.0	496.4	502.6	503.5
30°	476.1	478.7	484.0	491.1	492.0
32.5°	462.8	465.5	471.7	478.7	480.5
35°	446.0	449.5	456.6	465.5	467.2
37.5°	430.9	433.6	442.4	452.2	454.8
40°	412.4	417.7	426.5	438.0	442.4
42.5°	393.8	399.1	409.7	424.8	430.1
45°	374.3	380.5	393.8	410.6	417.7
47.5°	354.8	361.9	377.0	396.4	404.4
50°	332.7	341.6	360.2	382.3	391.1
52.5°	311.5	322.1	342.5	367.2	378.7
55°	289.4	300.0	326.5	352.2	364.6
57.5°	264.6	278.7	307.9	337.1	350.4
60°	241.6	254.9	290.2	322.1	335.4
62.5°	216.8	234.5	272.5	306.2	319.4
65°	191.1	210.6	254.0	287.6	300.9
67.5°	168.1	189.4	235.4	269.0	282.3
70°	140.7	167.2	215.0	248.7	261.9
72.5°	115.0	144.2	193.8	226.5	238.9
75°	90.3	123.0	171.7	200.9	207.1
77.5°	67.3	101.8	148.7	161.1	156.6
80°	47.8	81.4	115.9	109.7	112.4
82.5°	31.0	61.9	71.7	81.4	84.1
85°	17.7	36.3	44.2	47.8	49.6
87.5°	8.0	13.3	17.7	17.7	16.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)