

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: P277122

Luminaire Tested: **24CZ2-35-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277122
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-5500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2124.4 lumens
Efficiency: N/A
Efficacy: 79.3 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

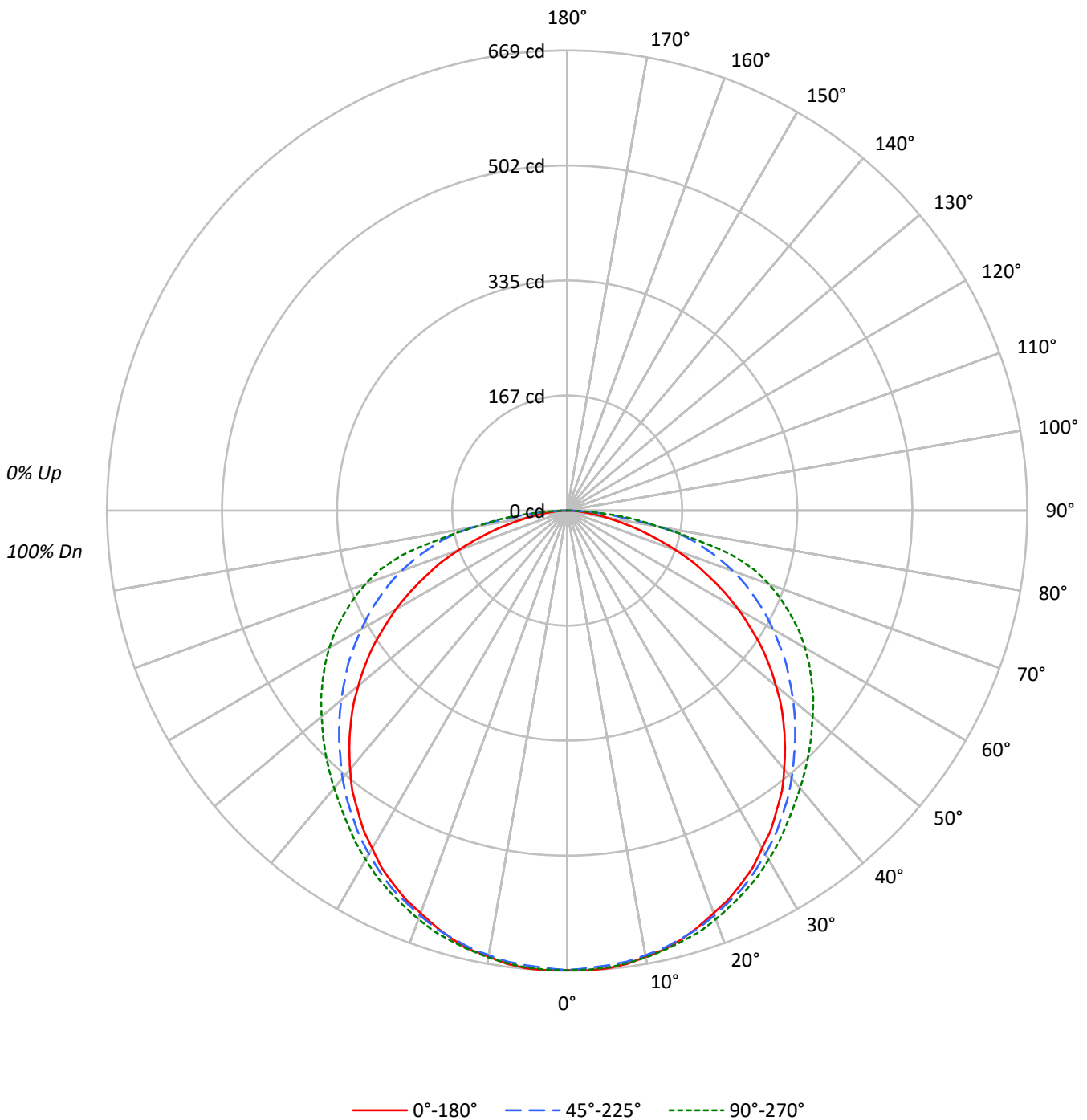
Input Watts (W): 26.784
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	899	899	899
5°	902	897	901
10°	900	897	901
15°	898	897	903
20°	892	896	905
25°	889	898	907
30°	881	896	910
35°	872	893	914
40°	862	892	925
45°	848	892	946
50°	829	898	975
55°	808	912	1018
60°	774	930	1075
65°	725	963	1141
70°	659	1007	1227
75°	559	1063	1282
80°	441	1069	1037
85°	326	814	911



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.4	3.0
10°-20°	182.4	8.6
20°-30°	278.9	13.1
30°-40°	341.0	16.0
40°-50°	363.4	17.1
50°-60°	347.5	16.4
60°-70°	294.3	13.9
70°-80°	197.8	9.3
80°-90°	55.8	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°	524.7	24.7
0°-40°	865.6	40.7
0°-60°	1576.5	74.2
0°-90°	2124.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2124.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	668	668	668	668	668	
5°	668	667	664	667	667	63
15°	645	645	644	649	648	182
25°	598	601	605	610	611	276
35°	531	535	544	554	556	333
45°	446	453	469	489	497	344
55°	345	357	389	419	434	307
65°	228	251	302	342	358	226
75°	108	146	204	239	247	115
85°	21	43	53	57	59	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	668.1	668.1	668.1	668.1	668.1
2.5°	669.1	669.1	666.0	668.1	668.1
5°	668.1	667.0	663.9	667.0	667.0
7.5°	664.9	663.9	661.7	664.9	663.9
10°	658.6	658.6	656.5	659.6	659.6
12.5°	653.3	652.3	651.2	655.4	654.4
15°	644.9	644.9	643.8	649.1	648.0
17.5°	634.4	635.4	636.5	640.7	641.7
20°	622.8	624.9	625.9	632.2	632.2
22.5°	612.2	613.3	615.4	621.7	621.7
25°	598.5	600.6	604.8	610.1	611.2
27.5°	584.8	585.9	591.1	598.5	599.6
30°	566.9	570.1	576.4	584.8	585.9
32.5°	551.1	554.3	561.6	570.1	572.2
35°	531.1	535.3	543.7	554.3	556.4
37.5°	513.2	516.3	526.9	538.5	541.6
40°	491.0	497.4	507.9	521.6	526.9
42.5°	468.9	475.2	487.9	505.8	512.1
45°	445.7	453.1	468.9	488.9	497.4
47.5°	422.5	431.0	448.9	472.1	481.6
50°	396.2	406.7	428.9	455.2	465.8
52.5°	370.9	383.6	407.8	437.3	451.0
55°	344.6	357.2	388.8	419.4	434.1
57.5°	315.1	331.9	366.7	401.5	417.3
60°	287.7	303.5	345.6	383.6	399.4
62.5°	258.2	279.2	324.6	364.6	380.4
65°	227.6	250.8	302.4	342.5	358.3
67.5°	200.2	225.5	280.3	320.3	336.1
70°	167.5	199.2	256.1	296.1	311.9
72.5°	137.0	171.8	230.8	269.8	284.5
75°	107.5	146.5	204.4	239.2	246.6
77.5°	80.1	121.2	177.0	191.8	186.5
80°	56.9	96.9	138.0	130.7	133.8
82.5°	36.9	73.8	85.4	96.9	100.1
85°	21.1	43.2	52.7	56.9	59.0
87.5°	9.5	15.8	21.1	21.1	20.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)