

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: P275679

Luminaire Tested: **14CZ2-25-S-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275679
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-25-S-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1921.0 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

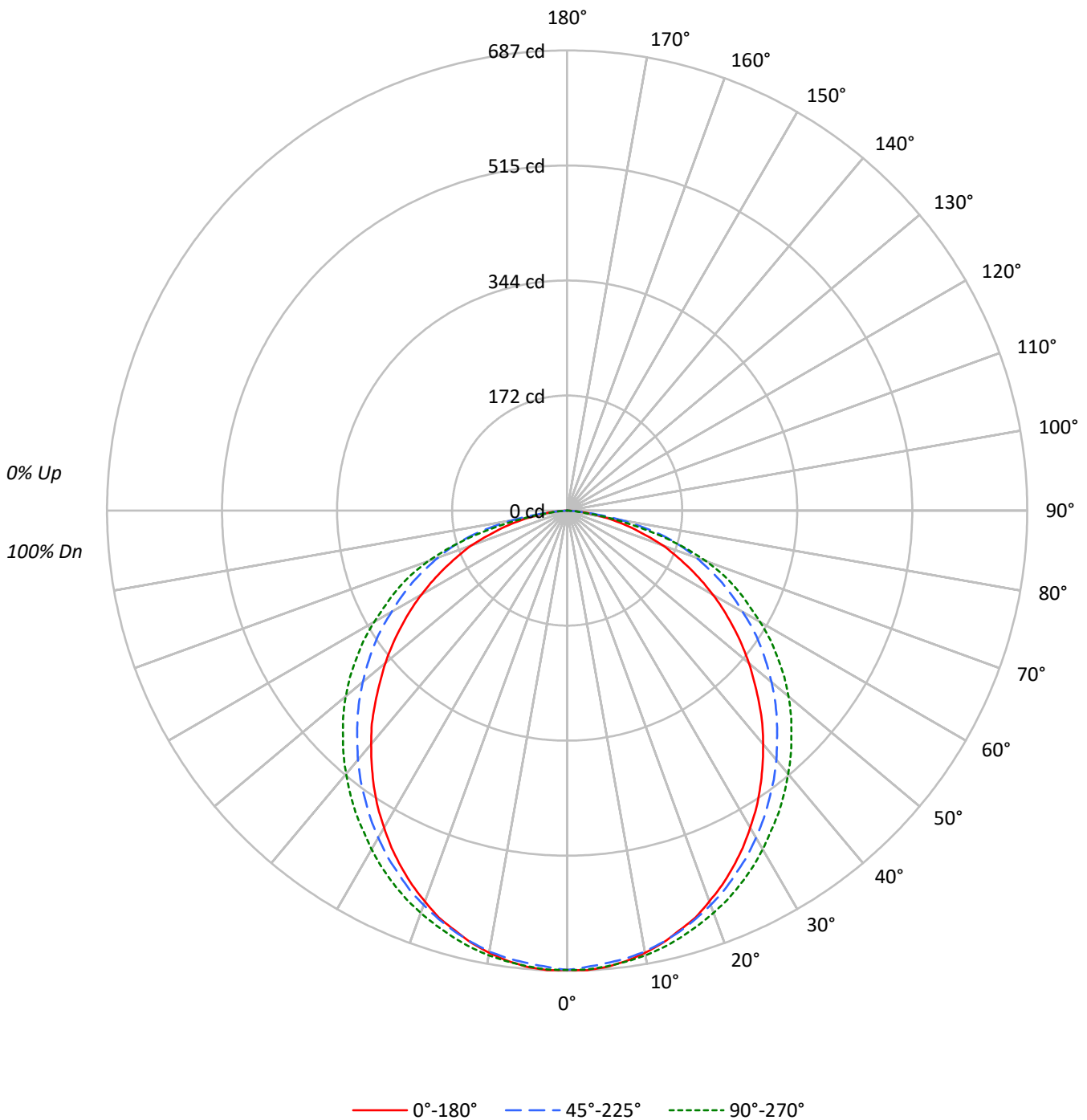
Input Watts (W): 18.228
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1845	1845	1845
5°	1847	1832	1845
10°	1832	1827	1843
15°	1807	1812	1836
20°	1778	1795	1830
25°	1742	1773	1824
30°	1699	1752	1814
35°	1652	1727	1808
40°	1599	1707	1803
45°	1541	1686	1802
50°	1483	1667	1806
55°	1421	1653	1801
60°	1353	1630	1789
65°	1273	1626	1789
70°	1199	1611	1739
75°	1040	1574	1486
80°	841	1269	989
85°	559	442	293



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.8	3.4
10°-20°	184.3	9.6
20°-30°	276.4	14.4
30°-40°	329.7	17.2
40°-50°	340.9	17.7
50°-60°	311.2	16.2
60°-70°	244.9	12.7
70°-80°	142.6	7.4
80°-90°	26.3	1.4
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°	525.4	27.4
0°-40°	855.2	44.5
0°-60°	1507.3	78.5
0°-90°	1921.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1921.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	686	686	686	686	686	
5°	684	682	678	684	683	65
15°	649	650	650	659	659	183
25°	587	590	597	612	614	270
35°	503	510	526	546	550	314
45°	405	418	443	468	473	313
55°	303	319	352	378	384	271
65°	200	221	255	275	281	199
75°	100	124	151	149	143	106
85°	18	26	14	11	10	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	685.8	685.8	685.8	685.8	685.8
2.5°	686.7	684.8	682.0	686.7	685.8
5°	683.9	682.0	678.1	683.9	682.9
7.5°	678.1	676.2	674.3	680.1	679.1
10°	670.5	669.6	668.6	675.3	674.3
12.5°	661.0	661.0	660.0	667.7	667.7
15°	648.6	649.6	650.5	659.1	659.1
17.5°	637.2	636.2	639.1	648.6	649.6
20°	621.0	622.9	626.7	638.1	639.1
22.5°	604.8	606.7	613.4	624.8	627.7
25°	586.7	589.6	597.2	611.5	614.3
27.5°	567.7	571.5	581.9	597.2	600.0
30°	546.7	552.4	563.9	581.0	583.9
32.5°	525.8	531.5	545.8	562.9	566.7
35°	502.9	509.6	525.8	545.8	550.5
37.5°	479.1	487.7	506.7	526.7	532.4
40°	455.3	464.8	485.8	506.7	513.4
42.5°	431.5	441.0	463.8	487.7	494.3
45°	404.8	418.1	442.9	467.7	473.4
47.5°	379.1	393.4	421.0	445.7	453.4
50°	354.3	368.6	398.1	423.8	431.5
52.5°	328.6	343.8	375.3	401.9	408.6
55°	302.9	319.1	352.4	378.1	383.8
57.5°	277.2	294.3	328.6	353.4	360.0
60°	251.4	269.5	302.9	327.6	332.4
62.5°	225.7	244.8	279.1	301.0	305.7
65°	200.0	221.0	255.3	275.3	281.0
67.5°	175.3	196.2	229.5	248.6	253.4
70°	152.4	171.4	204.8	219.1	221.0
72.5°	123.8	147.6	180.0	187.6	182.9
75°	100.0	123.8	151.4	148.6	142.9
77.5°	76.2	100.0	118.1	108.6	101.0
80°	54.3	78.1	81.9	67.6	63.8
82.5°	35.2	54.3	45.7	35.2	28.6
85°	18.1	25.7	14.3	11.4	9.5
87.5°	5.7	3.8	1.9	1.9	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)