

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: P275588

Luminaire Tested: **14CZ2-20-S-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275588
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: 14CZ2-20-S-UNV-L93050-W2A1-U-4000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1928.0 lumens
Efficiency: N/A
Efficacy: 122.7 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

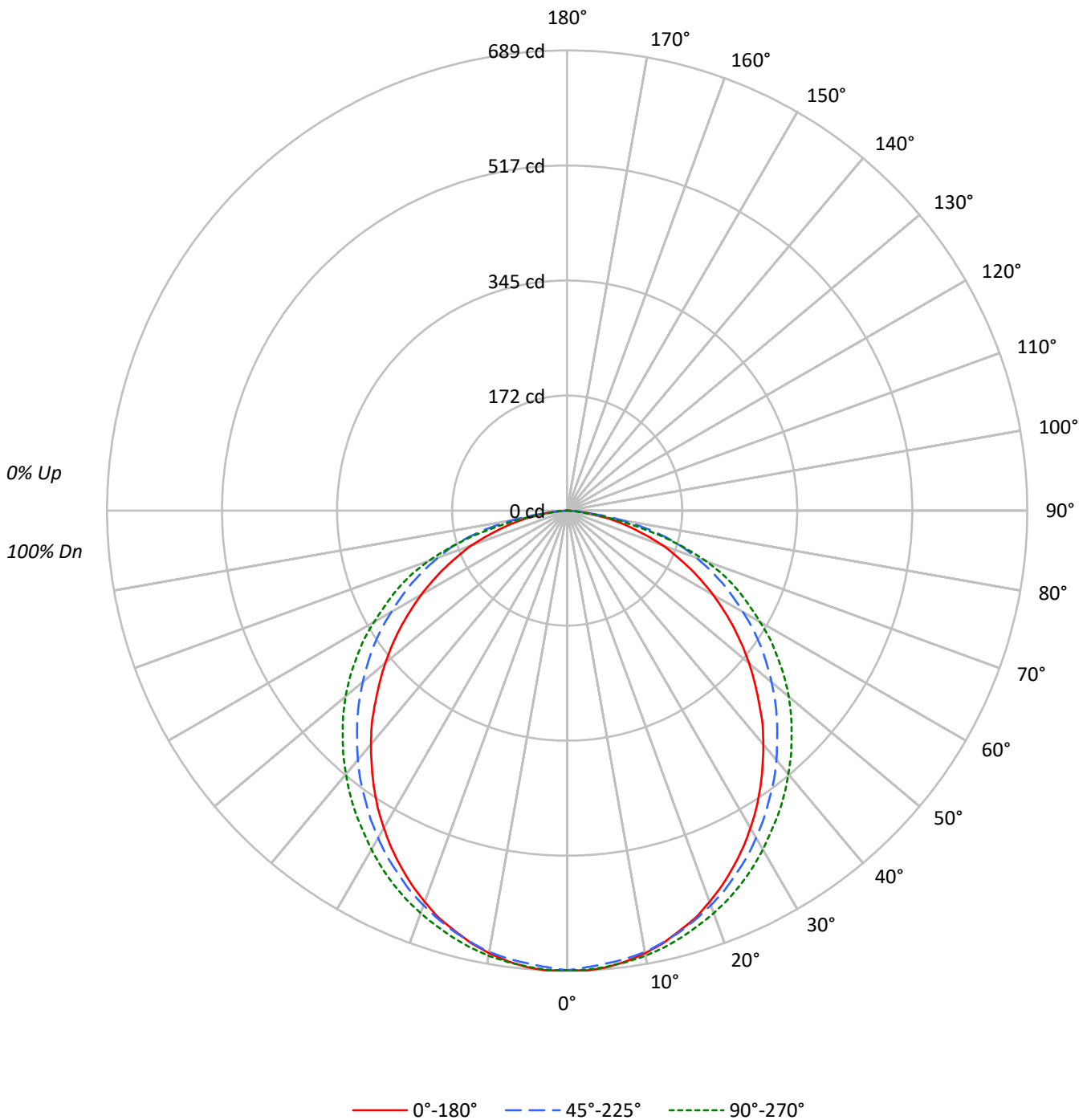
Input Watts (W): 15.717
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1852	1852	1852
5°	1854	1838	1851
10°	1839	1834	1849
15°	1814	1819	1843
20°	1785	1801	1837
25°	1748	1780	1831
30°	1705	1758	1821
35°	1658	1734	1815
40°	1605	1713	1810
45°	1546	1692	1808
50°	1489	1673	1813
55°	1426	1659	1807
60°	1358	1636	1795
65°	1278	1631	1796
70°	1203	1617	1745
75°	1044	1580	1491
80°	845	1274	992
85°	562	442	296



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.0	3.4
10°-20°	184.9	9.6
20°-30°	277.4	14.4
30°-40°	330.9	17.2
40°-50°	342.1	17.7
50°-60°	312.3	16.2
60°-70°	245.8	12.7
70°-80°	143.1	7.4
80°-90°	26.4	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°	527.4	27.4
0°-40°	858.3	44.5
0°-60°	1512.7	78.5
0°-90°	1928.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1928.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	688	688	688	688	688	
5°	686	684	681	686	685	65
15°	651	652	653	662	662	184
25°	589	592	599	614	617	271
35°	505	511	528	548	552	315
45°	406	420	444	469	475	314
55°	304	320	354	380	385	272
65°	201	222	256	276	282	199
75°	100	124	152	149	143	107
85°	18	26	14	12	10	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	688.3	688.3	688.3	688.3	688.3
2.5°	689.2	687.3	684.4	689.2	688.3
5°	686.4	684.4	680.6	686.4	685.4
7.5°	680.6	678.7	676.8	682.5	681.6
10°	673.0	672.0	671.1	677.7	676.8
12.5°	663.4	663.4	662.5	670.1	670.1
15°	651.0	651.9	652.9	661.5	661.5
17.5°	639.5	638.6	641.4	651.0	651.9
20°	623.3	625.2	629.0	640.5	641.4
22.5°	607.0	608.9	615.6	627.1	630.0
25°	588.8	591.7	599.4	613.7	616.6
27.5°	569.7	573.6	584.1	599.4	602.2
30°	548.7	554.4	565.9	583.1	586.0
32.5°	527.7	533.4	547.7	565.0	568.8
35°	504.7	511.4	527.7	547.7	552.5
37.5°	480.8	489.4	508.6	528.6	534.4
40°	456.9	466.5	487.5	508.6	515.2
42.5°	433.0	442.6	465.5	489.4	496.1
45°	406.3	419.6	444.5	469.4	475.1
47.5°	380.5	394.8	422.5	447.4	455.0
50°	355.6	369.9	399.6	425.4	433.0
52.5°	329.8	345.1	376.6	403.4	410.1
55°	304.0	320.2	353.7	379.5	385.2
57.5°	278.2	295.4	329.8	354.6	361.3
60°	252.4	270.5	304.0	328.8	333.6
62.5°	226.6	245.7	280.1	302.1	306.9
65°	200.7	221.8	256.2	276.3	282.0
67.5°	175.9	196.9	230.4	249.5	254.3
70°	152.9	172.1	205.5	219.9	221.8
72.5°	124.3	148.2	180.7	188.3	183.5
75°	100.4	124.3	152.0	149.1	143.4
77.5°	76.5	100.4	118.5	109.0	101.3
80°	54.5	78.4	82.2	67.9	64.0
82.5°	35.4	54.5	45.9	35.4	28.7
85°	18.2	25.8	14.3	11.5	9.6
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)