

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: P275616

Luminaire Tested: **14CZ2-20-S-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275616
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-L82765-W2A1-U-2700K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1927.0 lumens
Efficiency: N/A
Efficacy: 125.6 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

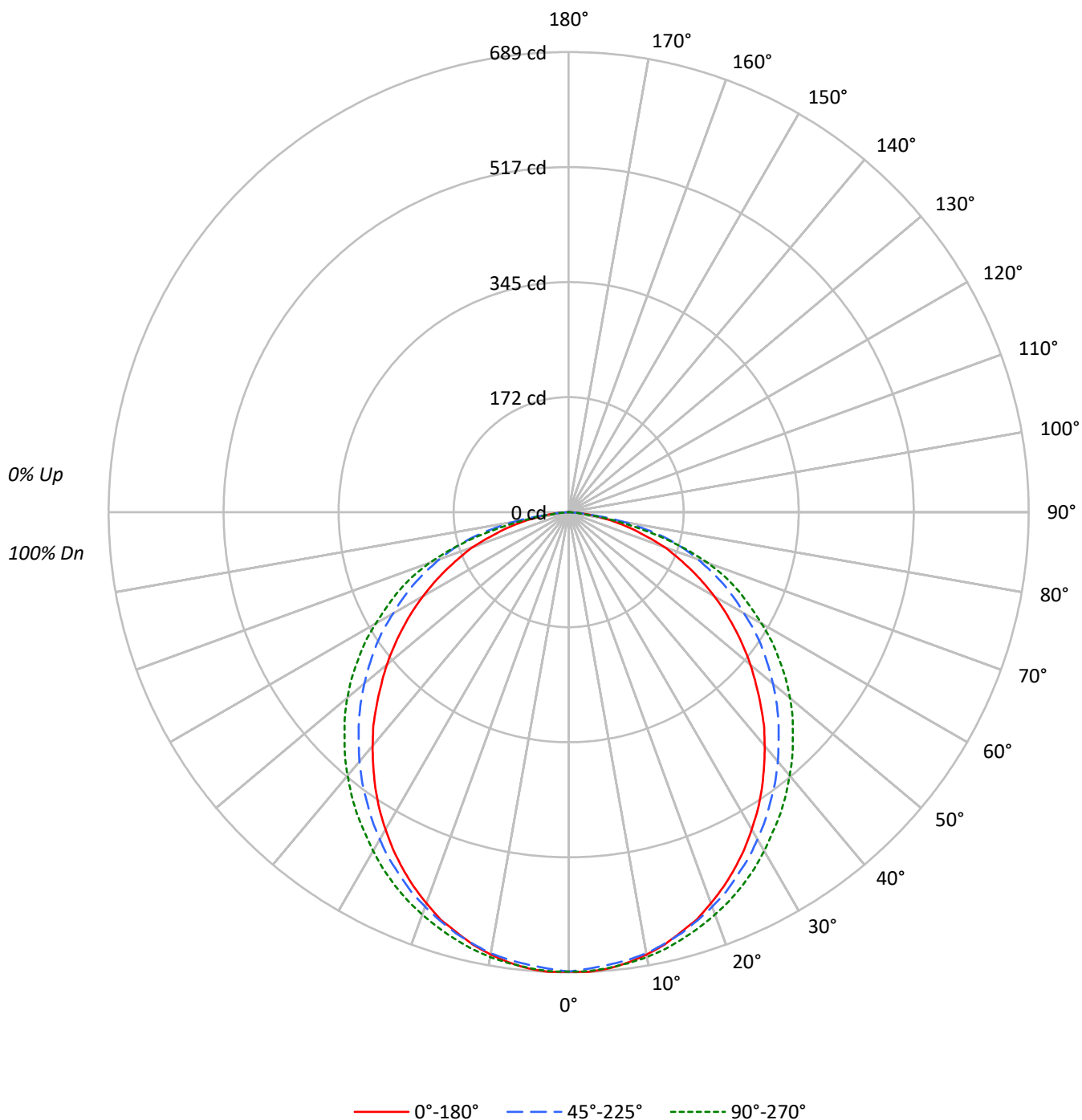
Input Watts (W): 15.345
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	104	100	96	106	102	98	94		97	94	91		94	91	89		90	88	86
2	99	90	84	78	96	89	82	77		85	80	75		82	77	73		79	75	72
3	90	79	71	65	87	78	70	64		75	68	63		72	66	62		69	65	61
4	82	70	61	55	80	69	61	54		66	59	53		64	58	53		62	56	52
5	76	63	54	47	74	62	53	47		59	52	46		57	51	46		56	50	45
6	70	56	47	41	68	55	47	41		54	46	40		52	45	40		50	44	40
7	65	51	42	36	63	50	42	36		49	41	36		47	41	35		46	40	35
8	60	47	38	32	59	46	38	32		45	37	32		43	37	32		42	36	32
9	56	43	35	29	55	42	34	29		41	34	29		40	33	29		39	33	28
10	53	40	32	26	52	39	31	26		38	31	26		37	31	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1851	1851	1851
5°	1853	1838	1850
10°	1838	1833	1848
15°	1813	1818	1842
20°	1784	1800	1836
25°	1747	1779	1830
30°	1704	1757	1820
35°	1657	1733	1814
40°	1604	1712	1809
45°	1545	1691	1807
50°	1488	1672	1812
55°	1425	1658	1806
60°	1357	1635	1794
65°	1277	1631	1795
70°	1203	1616	1744
75°	1043	1579	1490
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°	184.8	9.6
20°-30°	277.3	14.4
30°-40°	330.8	17.2
40°-50°	341.9	17.7
50°-60°	312.2	16.2
60°-70°	245.7	12.7
70°-80°	143.0	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°	527.1	27.4
0°-40°	857.8	44.5
0°-60°	1512.0	78.5
0°-90°	1927.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1927.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	688	688	688	688	688	
5°	686	684	680	686	685	65
15°	651	652	653	661	661	184
25°	588	591	599	613	616	271
35°	504	511	527	548	552	315
45°	406	419	444	469	475	314
55°	304	320	354	379	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°	687.9	687.9	687.9	687.9	687.9
2.5°	688.9	687.0	684.1	688.9	687.9
5°	686.0	684.1	680.3	686.0	685.0
7.5°	680.3	678.4	676.4	682.2	681.2
10°	672.6	671.7	670.7	677.4	676.4
12.5°	663.1	663.1	662.1	669.8	669.8
15°	650.6	651.6	652.6	661.2	661.2
17.5°	639.2	638.2	641.1	650.6	651.6
20°	622.9	624.8	628.7	640.1	641.1
22.5°	606.7	608.6	615.3	626.8	629.6
25°	588.5	591.4	599.1	613.4	616.3
27.5°	569.4	573.3	583.8	599.1	601.9
30°	548.4	554.1	565.6	582.8	585.7
32.5°	527.4	533.1	547.5	564.7	568.5
35°	504.5	511.2	527.4	547.5	552.2
37.5°	480.6	489.2	508.3	528.4	534.1
40°	456.7	466.2	487.3	508.3	515.0
42.5°	432.8	442.4	465.3	489.2	495.9
45°	406.1	419.4	444.3	469.1	474.8
47.5°	380.3	394.6	422.3	447.1	454.8
50°	355.4	369.8	399.4	425.2	432.8
52.5°	329.6	344.9	376.4	403.2	409.9
55°	303.8	320.1	353.5	379.3	385.0
57.5°	278.0	295.2	329.6	354.5	361.2
60°	252.2	270.4	303.8	328.7	333.4
62.5°	226.4	245.5	279.9	301.9	306.7
65°	200.6	221.7	256.1	276.1	281.9
67.5°	175.8	196.8	230.3	249.4	254.1
70°	152.9	172.0	205.4	219.7	221.7
72.5°	124.2	148.1	180.6	188.2	183.4
75°	100.3	124.2	151.9	149.0	143.3
77.5°	76.4	100.3	118.5	108.9	101.3
80°	54.5	78.3	82.2	67.8	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)