

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: P275737

Luminaire Tested: **14CZ2-29-RDP-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275737
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-29-RDP-UNV-L83050-W2A1-U-4500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1972.0 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

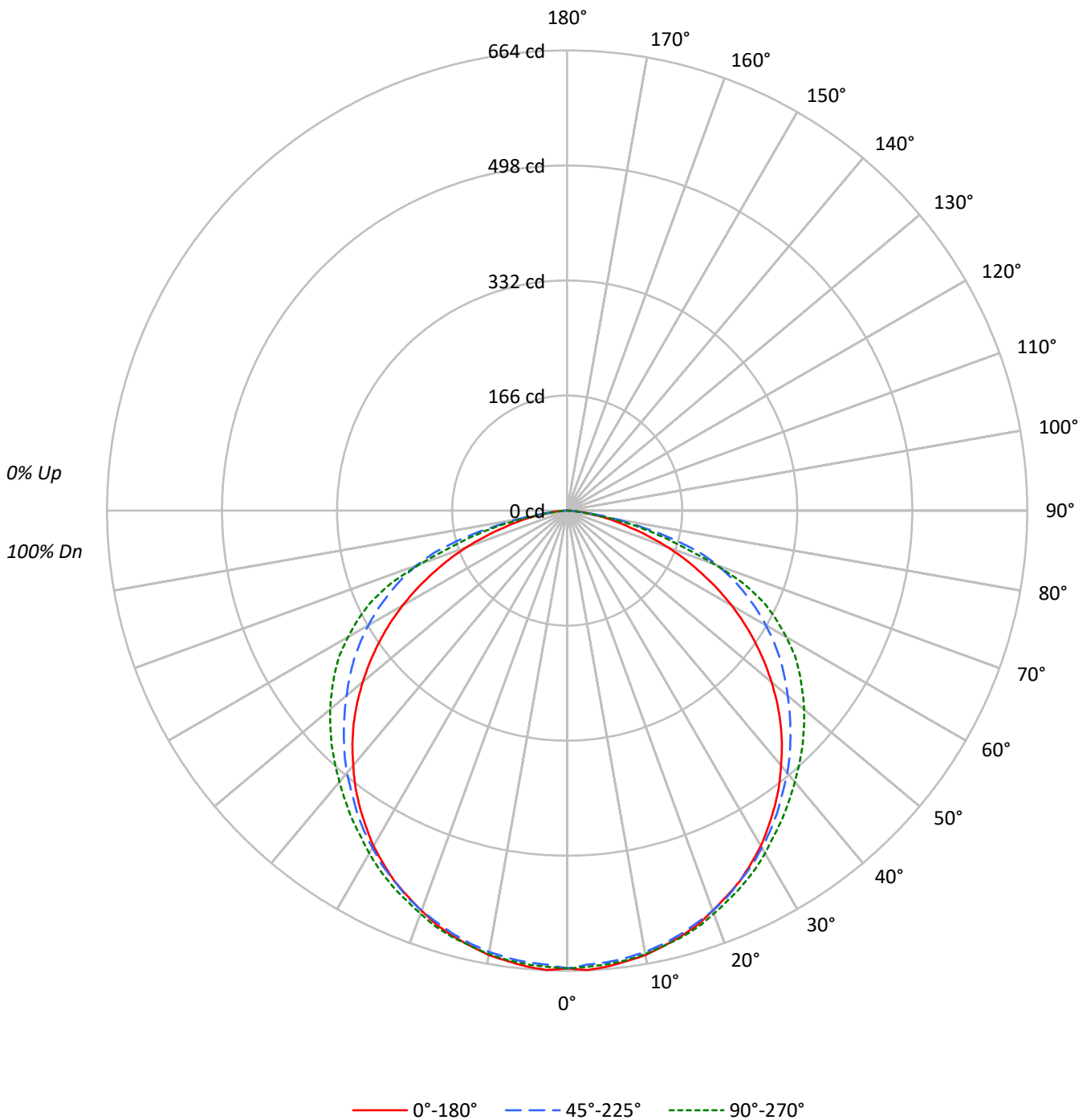
Input Watts (W): 23.25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84					84			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1777	1777	1777
5°	1784	1767	1776
10°	1779	1767	1775
15°	1771	1763	1776
20°	1759	1759	1772
25°	1751	1751	1774
30°	1737	1746	1775
35°	1714	1740	1780
40°	1687	1736	1795
45°	1658	1734	1828
50°	1611	1740	1869
55°	1553	1763	1921
60°	1475	1781	1964
65°	1363	1804	1990
70°	1212	1817	1781
75°	976	1632	1424
80°	764	1145	930
85°	522	333	238



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.5	3.2
10°-20°	179.4	9.1
20°-30°	273.1	13.8
30°-40°	332.6	16.9
40°-50°	352.9	17.9
50°-60°	333.1	16.9
60°-70°	268.9	13.6
70°-80°	145.9	7.4
80°-90°	23.6	1.2
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°	515.0	26.1
0°-40°	847.6	43.0
0°-60°	1533.6	77.8
0°-90°	1972.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1972.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	660	660	660	660	660	
5°	660	659	654	659	657	63
15°	636	634	633	637	637	179
25°	590	588	590	596	597	271
35°	522	525	530	540	542	326
45°	436	442	456	473	480	336
55°	331	345	376	400	410	296
65°	214	240	283	306	312	212
75°	94	137	157	142	137	103
85°	17	18	11	9	8	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	660.5	660.5	660.5	660.5	660.5
2.5°	663.6	660.5	655.9	660.5	658.9
5°	660.5	658.9	654.3	658.9	657.4
7.5°	655.9	655.9	651.2	654.3	654.3
10°	651.2	649.7	646.6	651.2	649.7
12.5°	643.5	642.0	640.5	645.1	643.5
15°	635.8	634.3	632.8	637.4	637.4
17.5°	626.6	625.1	623.5	629.7	629.7
20°	614.3	614.3	614.3	620.4	618.9
22.5°	602.0	602.0	603.5	609.7	608.1
25°	589.7	588.1	589.7	595.8	597.4
27.5°	574.3	575.8	577.3	583.5	585.0
30°	558.9	560.4	561.9	569.6	571.2
32.5°	540.4	543.5	546.5	555.8	555.8
35°	521.9	525.0	529.6	540.4	541.9
37.5°	501.9	505.0	511.1	523.5	526.5
40°	480.3	485.0	494.2	506.5	511.1
42.5°	458.8	464.9	475.7	489.6	495.7
45°	435.7	441.9	455.7	472.6	480.3
47.5°	411.1	418.8	435.7	457.3	463.4
50°	384.9	395.7	415.7	438.8	446.5
52.5°	358.7	371.0	395.7	420.3	428.0
55°	331.0	344.9	375.7	400.3	409.5
57.5°	303.3	318.7	354.1	380.3	389.5
60°	274.0	292.5	331.0	357.2	364.9
62.5°	244.8	266.3	307.9	334.1	340.2
65°	214.0	240.2	283.3	306.4	312.5
67.5°	184.7	215.5	258.6	275.6	275.6
70°	154.0	187.8	230.9	235.6	226.3
72.5°	123.2	161.7	200.1	183.2	175.5
75°	93.9	137.0	157.0	141.6	137.0
77.5°	70.8	110.8	110.8	101.6	98.5
80°	49.3	84.7	73.9	64.7	60.0
82.5°	32.3	47.7	38.5	30.8	26.2
85°	16.9	18.5	10.8	9.2	7.7
87.5°	6.2	3.1	1.5	3.1	1.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)