

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: P275766

Luminaire Tested: **14CZ2-29-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275766
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-L93050-W2A1-U-4000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1708.0 lumens
Efficiency: N/A
Efficacy: 75.3 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

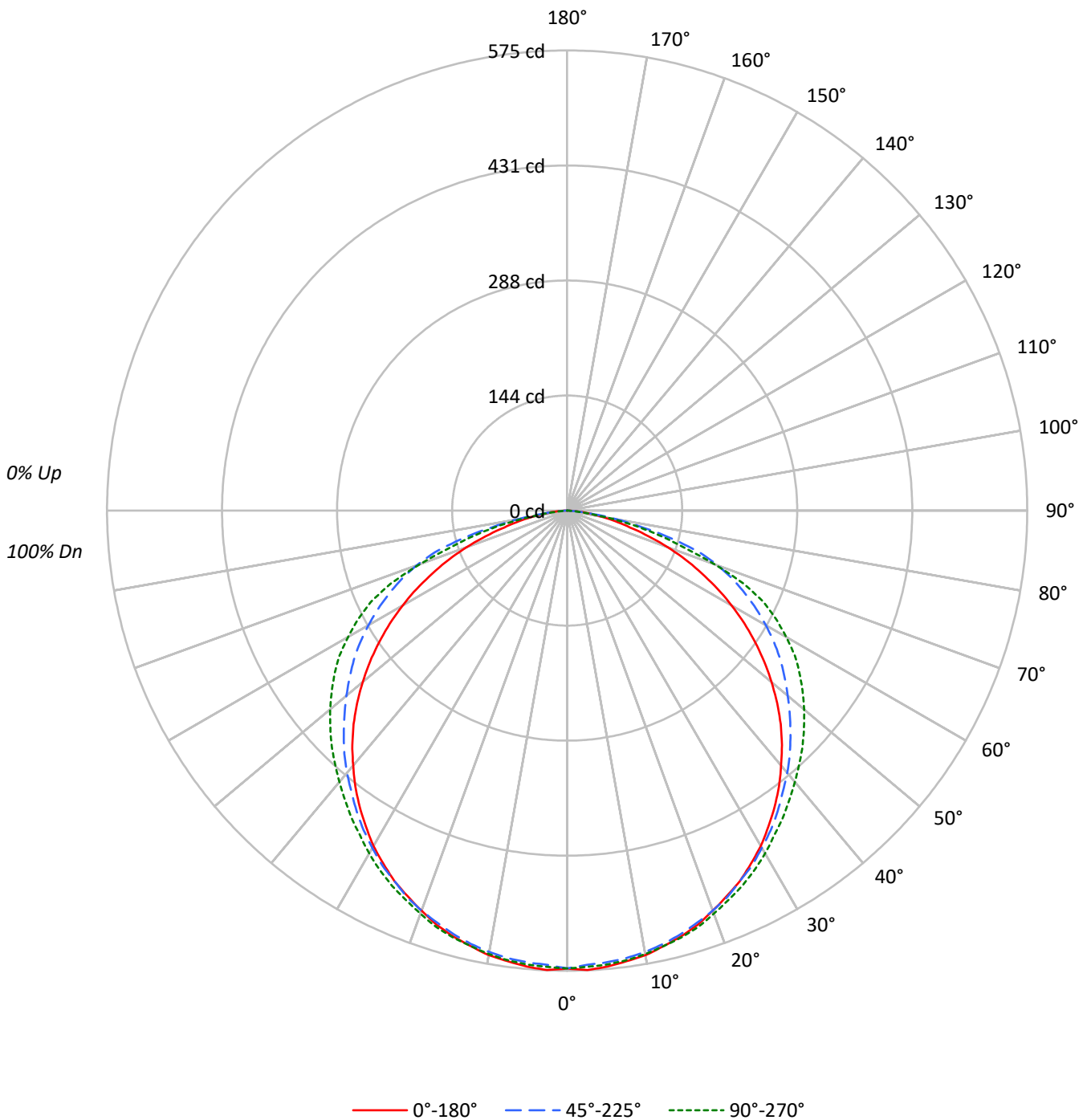
Input Watts (W): 22.692
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1540	1540	1540
5°	1545	1531	1538
10°	1541	1530	1538
15°	1534	1527	1538
20°	1523	1523	1535
25°	1516	1516	1536
30°	1504	1512	1537
35°	1485	1507	1542
40°	1461	1503	1555
45°	1436	1502	1583
50°	1396	1507	1619
55°	1345	1527	1664
60°	1278	1543	1701
65°	1181	1563	1724
70°	1049	1574	1542
75°	845	1414	1234
80°	662	992	806
85°	454	287	207



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.1	3.2
10°-20°	155.3	9.1
20°-30°	236.5	13.8
30°-40°	288.1	16.9
40°-50°	305.7	17.9
50°-60°	288.5	16.9
60°-70°	232.9	13.6
70°-80°	126.3	7.4
80°-90°	20.4	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°	446.0	26.1
0°-40°	734.1	43.0
0°-60°	1328.3	77.8
0°-90°	1708.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1708.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	572	572	572	572	572	
5°	572	571	567	571	569	54
15°	551	549	548	552	552	155
25°	511	509	511	516	517	235
35°	452	455	459	468	469	283
45°	377	383	395	409	416	291
55°	287	299	325	347	355	256
65°	185	208	245	265	271	184
75°	81	119	136	123	119	89
85°	15	16	9	8	7	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	572.1	572.1	572.1	572.1	572.1
2.5°	574.7	572.1	568.1	572.1	570.7
5°	572.1	570.7	566.7	570.7	569.4
7.5°	568.1	568.1	564.1	566.7	566.7
10°	564.1	562.7	560.1	564.1	562.7
12.5°	557.4	556.1	554.7	558.7	557.4
15°	550.7	549.4	548.1	552.1	552.1
17.5°	542.7	541.4	540.0	545.4	545.4
20°	532.0	532.0	532.0	537.4	536.0
22.5°	521.4	521.4	522.7	528.0	526.7
25°	510.7	509.4	510.7	516.0	517.4
27.5°	497.4	498.7	500.0	505.4	506.7
30°	484.0	485.4	486.7	493.4	494.7
32.5°	468.0	470.7	473.4	481.4	481.4
35°	452.0	454.7	458.7	468.0	469.4
37.5°	434.7	437.4	442.7	453.4	456.0
40°	416.0	420.0	428.0	438.7	442.7
42.5°	397.4	402.7	412.0	424.0	429.4
45°	377.4	382.7	394.7	409.4	416.0
47.5°	356.0	362.7	377.4	396.0	401.4
50°	333.4	342.7	360.0	380.0	386.7
52.5°	310.7	321.4	342.7	364.0	370.7
55°	286.7	298.7	325.4	346.7	354.7
57.5°	262.7	276.0	306.7	329.4	337.4
60°	237.4	253.4	286.7	309.4	316.0
62.5°	212.0	230.7	266.7	289.4	294.7
65°	185.4	208.0	245.4	265.4	270.7
67.5°	160.0	186.7	224.0	238.7	238.7
70°	133.3	162.7	200.0	204.0	196.0
72.5°	106.7	140.0	173.3	158.7	152.0
75°	81.3	118.7	136.0	122.7	118.7
77.5°	61.3	96.0	96.0	88.0	85.3
80°	42.7	73.3	64.0	56.0	52.0
82.5°	28.0	41.3	33.3	26.7	22.7
85°	14.7	16.0	9.3	8.0	6.7
87.5°	5.3	2.7	1.3	2.7	1.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)