

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: P260425

Luminaire Tested: **22CZ-LD5-29-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260425
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25714)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-29-RDP-UNV-L93050-W2A1-U-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1785.0 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

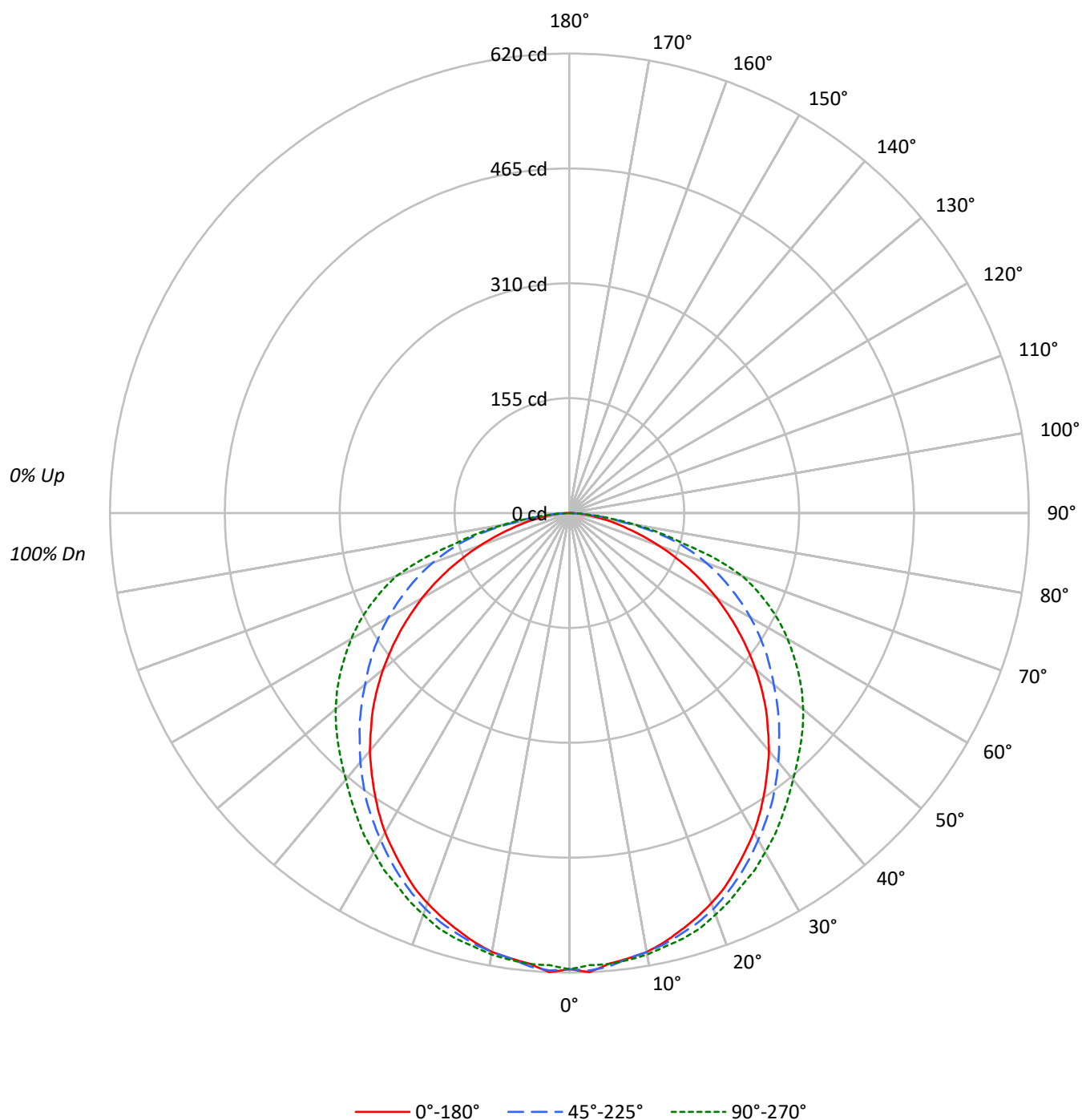
Input Watts (W): 21.227808
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83		
2	98	90	83	77	96	88	81	76	84	79	74	81	77	73	78	74	71	69		
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57		
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49		
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42		
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37		
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32		
8	60	46	37	31	58	45	37	31	44	37	31	43	36	31	42	35	31	29		
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26		
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1656	1656	1656
5°	1650	1659	1650
10°	1643	1643	1653
15°	1623	1636	1655
20°	1604	1627	1651
25°	1576	1607	1642
30°	1546	1583	1642
35°	1508	1566	1643
40°	1472	1542	1649
45°	1429	1523	1679
50°	1374	1508	1724
55°	1308	1513	1772
60°	1235	1520	1830
65°	1139	1528	1896
70°	1009	1546	1954
75°	857	1542	1664
80°	711	1240	1385
85°	618	837	800



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.1	3.3
10°-20°	165.8	9.3
20°-30°	249.5	14.0
30°-40°	299.0	16.8
40°-50°	311.8	17.5
50°-60°	290.3	16.3
60°-70°	235.7	13.2
70°-80°	142.1	8.0
80°-90°	32.6	1.8
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°	473.5	26.5
0°-40°	772.5	43.3
0°-60°	1374.7	77.0
0°-90°	1785.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1785.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	615	615	615	615	615	
5°	611	611	614	615	611	58
15°	582	585	587	591	594	164
25°	531	534	541	548	553	245
35°	459	465	477	491	500	287
45°	375	382	400	426	441	289
55°	279	291	322	358	378	249
65°	179	198	240	278	298	177
75°	82	109	148	158	160	89
85°	20	25	27	26	26	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	615.4	615.4	615.4	615.4	615.4
2.5°	620.1	618.9	617.8	614.2	610.7
5°	610.7	610.7	614.2	615.4	610.7
7.5°	606.0	606.0	606.0	610.7	608.3
10°	601.3	601.3	601.3	604.8	604.8
12.5°	593.0	594.2	595.4	596.6	598.9
15°	582.5	584.8	587.2	590.7	594.2
17.5°	571.9	574.2	578.9	582.5	587.2
20°	560.1	562.5	568.3	571.9	576.6
22.5°	547.2	548.3	555.4	560.1	566.0
25°	530.7	534.2	541.3	548.3	553.0
27.5°	514.2	517.7	526.0	535.4	542.4
30°	497.7	501.3	509.5	521.3	528.3
32.5°	478.9	483.6	493.0	507.1	515.4
35°	458.9	464.8	476.6	490.7	500.1
37.5°	438.9	444.8	457.7	475.4	484.8
40°	418.9	424.8	438.9	457.7	469.5
42.5°	396.5	403.6	418.9	441.3	455.4
45°	375.4	382.4	400.1	426.0	441.3
47.5°	351.8	360.1	380.1	409.5	427.1
50°	328.3	337.7	360.1	393.0	411.8
52.5°	303.6	314.2	341.2	375.4	395.4
55°	278.9	290.6	322.4	357.7	377.7
57.5°	254.2	267.1	302.4	338.9	358.9
60°	229.5	243.6	282.4	320.1	340.1
62.5°	204.7	220.0	261.2	298.9	320.1
65°	178.9	197.7	240.0	277.7	297.7
67.5°	153.0	175.3	218.9	255.3	274.2
70°	128.3	153.0	196.5	230.6	248.3
72.5°	104.7	130.6	173.0	202.4	209.4
75°	82.4	109.4	148.3	157.7	160.0
77.5°	63.5	88.3	117.7	120.0	125.9
80°	45.9	67.1	80.0	87.1	89.4
82.5°	31.8	45.9	53.0	54.1	55.3
85°	20.0	24.7	27.1	25.9	25.9
87.5°	10.6	9.4	8.2	5.9	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)