

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: P230874

Luminaire Tested: **22CZ-LD5-32SE-RDP-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230874
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-LD5-32SE-RDP-UNV-L940-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH RDP LENS
Light Source: (56) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1861.0 lumens
Efficiency: N/A
Efficacy: 61.0 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

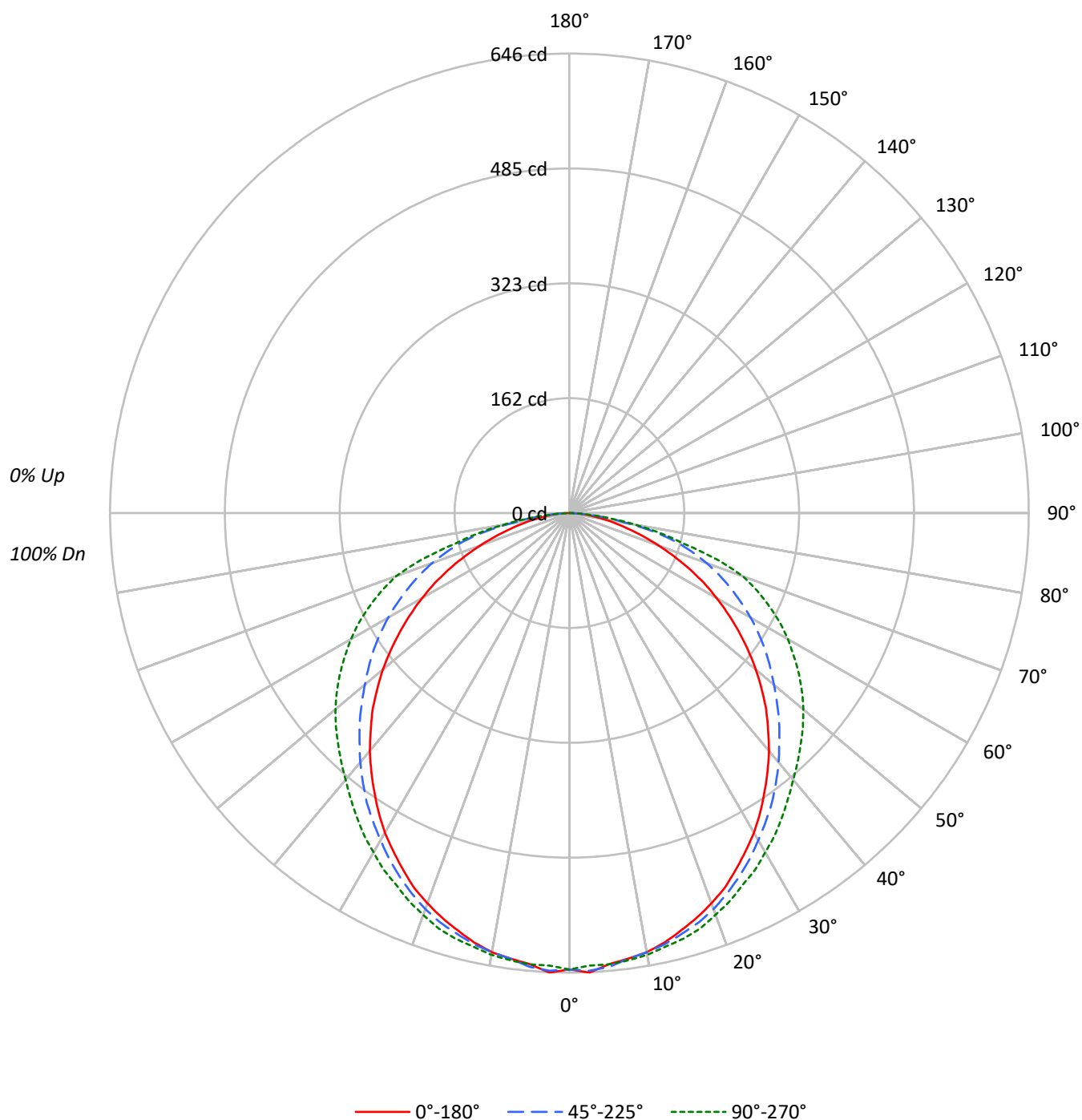
Input Watts (W): 30.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1727	1727	1727
5°	1720	1730	1720
10°	1713	1713	1723
15°	1692	1706	1726
20°	1672	1697	1721
25°	1643	1676	1712
30°	1612	1651	1711
35°	1572	1632	1713
40°	1534	1607	1720
45°	1489	1587	1751
50°	1433	1572	1798
55°	1364	1577	1848
60°	1287	1584	1908
65°	1188	1594	1976
70°	1052	1612	2036
75°	893	1607	1734
80°	741	1292	1444
85°	645	871	834



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.6	3.3
10°-20°	172.9	9.3
20°-30°	260.1	14.0
30°-40°	311.7	16.8
40°-50°	325.1	17.5
50°-60°	302.7	16.3
60°-70°	245.8	13.2
70°-80°	148.1	8.0
80°-90°	34.0	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°	493.7	26.5
0°-40°	805.4	43.3
0°-60°	1433.2	77.0
0°-90°	1861.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1861.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	642	642	642	642	642	
5°	637	637	640	642	637	61
15°	607	610	612	616	620	171
25°	553	557	564	572	577	255
35°	478	485	497	512	521	299
45°	391	399	417	444	460	301
55°	291	303	336	373	394	260
65°	186	206	250	290	310	184
75°	86	114	155	164	167	93
85°	21	26	28	27	27	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	641.6	641.6	641.6	641.6	641.6
2.5°	646.5	645.3	644.1	640.4	636.7
5°	636.7	636.7	640.4	641.6	636.7
7.5°	631.8	631.8	631.8	636.7	634.2
10°	626.9	626.9	626.9	630.6	630.6
12.5°	618.3	619.5	620.7	622.0	624.4
15°	607.3	609.7	612.2	615.8	619.5
17.5°	596.2	598.7	603.6	607.3	612.2
20°	583.9	586.4	592.5	596.2	601.1
22.5°	570.4	571.7	579.0	583.9	590.1
25°	553.3	557.0	564.3	571.7	576.6
27.5°	536.1	539.8	548.4	558.2	565.5
30°	518.9	522.6	531.2	543.5	550.8
32.5°	499.3	504.2	514.0	528.7	537.3
35°	478.4	484.6	496.8	511.6	521.4
37.5°	457.6	463.7	477.2	495.6	505.4
40°	436.7	442.9	457.6	477.2	489.5
42.5°	413.4	420.8	436.7	460.0	474.8
45°	391.3	398.7	417.1	444.1	460.0
47.5°	366.8	375.4	396.2	426.9	445.3
50°	342.3	352.1	375.4	409.7	429.4
52.5°	316.5	327.5	355.8	391.3	412.2
55°	290.7	303.0	336.1	372.9	393.8
57.5°	265.0	278.5	315.3	353.3	374.2
60°	239.2	253.9	294.4	333.7	354.5
62.5°	213.5	229.4	272.3	311.6	333.7
65°	186.5	206.1	250.3	289.5	310.4
67.5°	159.5	182.8	228.2	266.2	285.8
70°	133.7	159.5	204.9	240.4	258.8
72.5°	109.2	136.2	180.3	211.0	218.4
75°	85.9	114.1	154.6	164.4	166.8
77.5°	66.2	92.0	122.7	125.1	131.3
80°	47.8	69.9	83.4	90.8	93.2
82.5°	33.1	47.8	55.2	56.4	57.7
85°	20.9	25.8	28.2	27.0	27.0
87.5°	11.0	9.8	8.6	6.1	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)