

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: P260392

Luminaire Tested: **22CZ-LD5-24-RDP-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260392
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-LD5-24-RDP-UNV-L83050-W2A1-U-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1904.0 lumens
Efficiency: N/A
Efficacy: 103.4 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

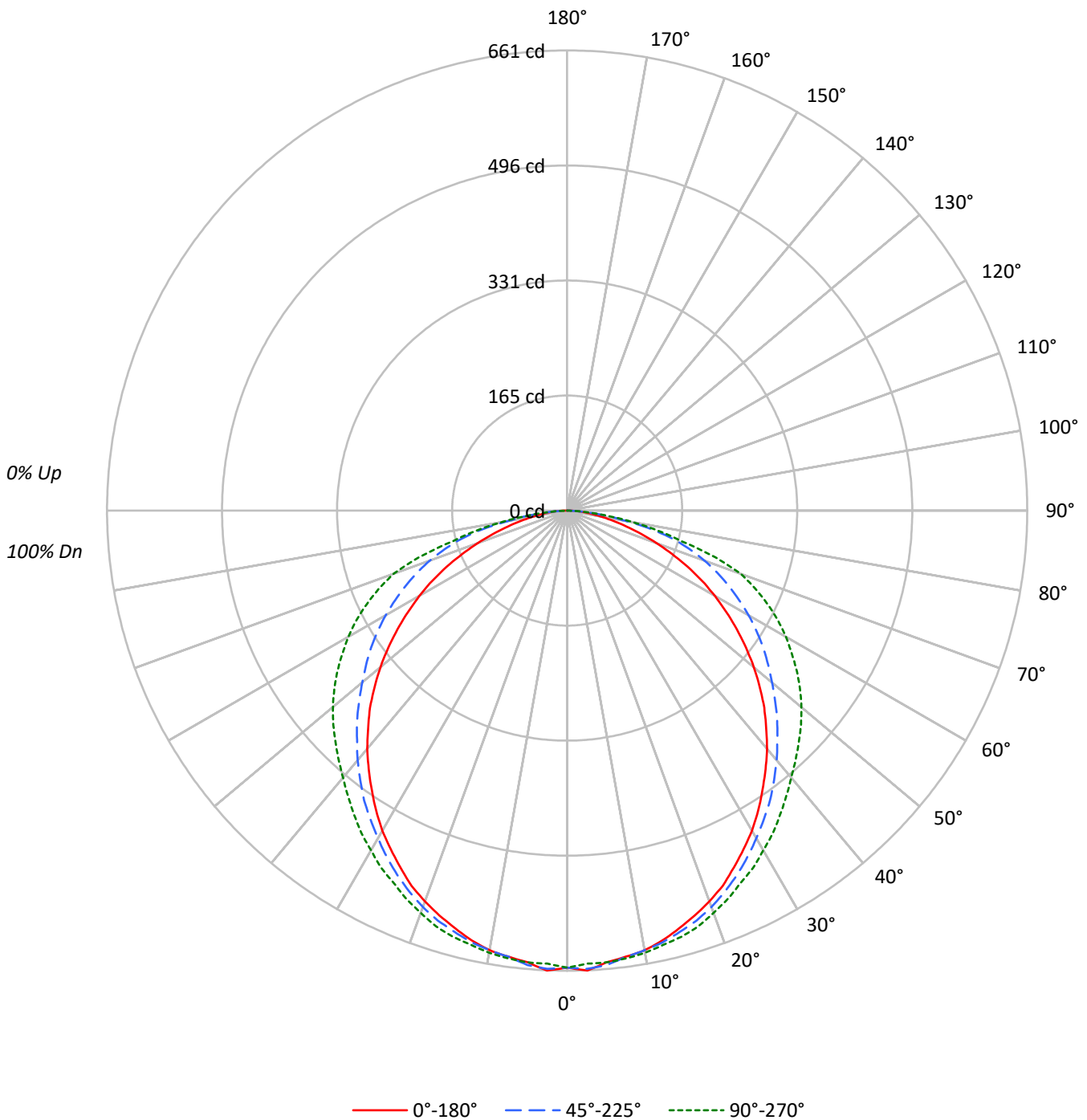
Input Watts (W): 18.414
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1766	1766	1766
5°	1760	1770	1760
10°	1753	1753	1763
15°	1731	1745	1766
20°	1711	1736	1761
25°	1681	1714	1752
30°	1650	1689	1751
35°	1608	1670	1752
40°	1570	1645	1759
45°	1524	1624	1791
50°	1466	1608	1839
55°	1396	1613	1890
60°	1317	1621	1952
65°	1215	1630	2022
70°	1076	1649	2083
75°	914	1644	1775
80°	758	1322	1478
85°	658	892	852



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.0	3.3
10°-20°	176.9	9.3
20°-30°	266.1	14.0
30°-40°	318.9	16.8
40°-50°	332.6	17.5
50°-60°	309.7	16.3
60°-70°	251.4	13.2
70°-80°	151.5	8.0
80°-90°	34.7	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°	505.1	26.5
0°-40°	824.0	43.3
0°-60°	1466.3	77.0
0°-90°	1904.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1904.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	656	656	656	656	656	
5°	651	651	655	656	651	62
15°	621	624	626	630	634	175
25°	566	570	577	585	590	261
35°	490	496	508	523	533	306
45°	400	408	427	454	471	308
55°	298	310	344	382	403	266
65°	191	211	256	296	318	189
75°	88	117	158	168	171	95
85°	21	26	29	28	28	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	656.4	656.4	656.4	656.4	656.4
2.5°	661.4	660.2	658.9	655.2	651.4
5°	651.4	651.4	655.2	656.4	651.4
7.5°	646.4	646.4	646.4	651.4	648.9
10°	641.4	641.4	641.4	645.1	645.1
12.5°	632.6	633.8	635.1	636.3	638.9
15°	621.3	623.8	626.3	630.1	633.8
17.5°	610.0	612.5	617.5	621.3	626.3
20°	597.4	599.9	606.2	610.0	615.0
22.5°	583.6	584.9	592.4	597.4	603.7
25°	566.1	569.8	577.4	584.9	589.9
27.5°	548.5	552.3	561.0	571.1	578.6
30°	530.9	534.7	543.5	556.0	563.5
32.5°	510.8	515.9	525.9	541.0	549.7
35°	489.5	495.8	508.3	523.4	533.4
37.5°	468.2	474.4	488.2	507.1	517.1
40°	446.8	453.1	468.2	488.2	500.8
42.5°	423.0	430.5	446.8	470.7	485.7
45°	400.4	407.9	426.7	454.4	470.7
47.5°	375.3	384.1	405.4	436.8	455.6
50°	350.2	360.2	384.1	419.2	439.3
52.5°	323.8	335.1	364.0	400.4	421.7
55°	297.5	310.0	343.9	381.6	402.9
57.5°	271.1	284.9	322.6	361.5	382.8
60°	244.7	259.8	301.2	341.4	362.7
62.5°	218.4	234.7	278.6	318.8	341.4
65°	190.8	210.9	256.0	296.2	317.5
67.5°	163.2	187.0	233.5	272.4	292.4
70°	136.8	163.2	209.6	246.0	264.8
72.5°	111.7	139.3	184.5	215.9	223.4
75°	87.9	116.7	158.1	168.2	170.7
77.5°	67.8	94.1	125.5	128.0	134.3
80°	48.9	71.5	85.3	92.9	95.4
82.5°	33.9	48.9	56.5	57.7	59.0
85°	21.3	26.4	28.9	27.6	27.6
87.5°	11.3	10.0	8.8	6.3	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)