

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: P260520

Luminaire Tested: **22CZ-LD5-29-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260520
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-L92765-W2A1-U-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1903.0 lumens
Efficiency: N/A
Efficacy: 89.7 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

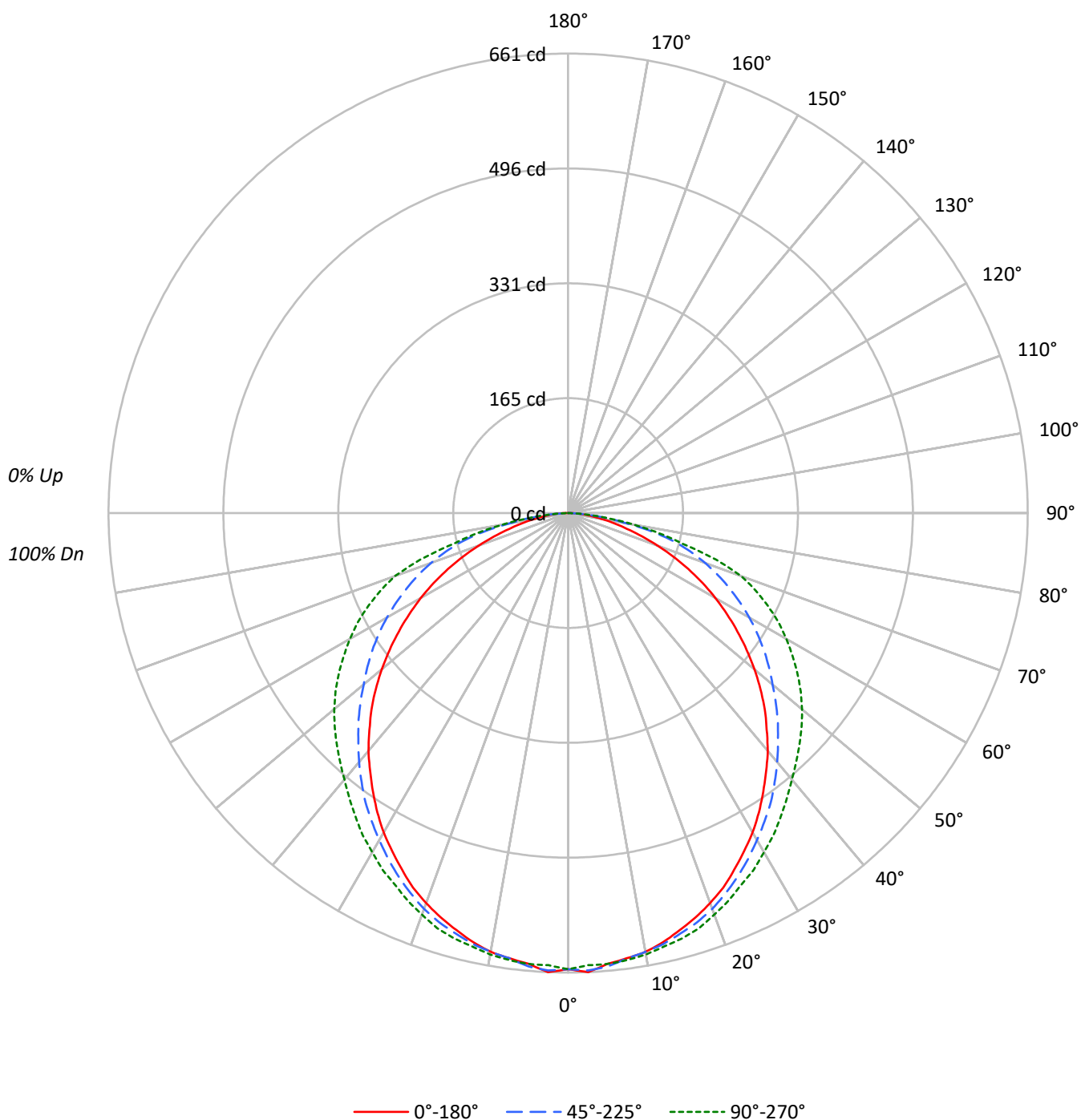
Input Watts (W): 21.204
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1766	1766	1766
5°	1759	1769	1759
10°	1752	1752	1762
15°	1730	1744	1765
20°	1710	1735	1760
25°	1680	1714	1751
30°	1649	1688	1750
35°	1607	1669	1751
40°	1569	1644	1758
45°	1523	1623	1790
50°	1465	1607	1838
55°	1395	1612	1889
60°	1316	1621	1951
65°	1214	1629	2021
70°	1076	1648	2083
75°	913	1644	1774
80°	758	1322	1477
85°	658	892	852



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.0	3.3
10°-20°	176.8	9.3
20°-30°	266.0	14.0
30°-40°	318.8	16.8
40°-50°	332.4	17.5
50°-60°	309.5	16.3
60°-70°	251.3	13.2
70°-80°	151.4	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°	504.8	26.5
0°-40°	823.6	43.3
0°-60°	1465.5	77.0
0°-90°	1903.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1903.0	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°	489	496	508	523	533	306
45°	400	408	426	454	470	308
55°	297	310	344	381	403	266
65°	191	211	256	296	317	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°	656.1	656.1	656.1	656.1	656.1
2.5°	661.1	659.8	658.6	654.8	651.1
5°	651.1	651.1	654.8	656.1	651.1
7.5°	646.0	646.0	646.0	651.1	648.6
10°	641.0	641.0	641.0	644.8	644.8
12.5°	632.2	633.5	634.8	636.0	638.5
15°	621.0	623.5	626.0	629.7	633.5
17.5°	609.7	612.2	617.2	621.0	626.0
20°	597.1	599.6	605.9	609.7	614.7
22.5°	583.3	584.6	592.1	597.1	603.4
25°	565.8	569.5	577.1	584.6	589.6
27.5°	548.2	552.0	560.7	570.8	578.3
30°	530.6	534.4	543.2	555.7	563.3
32.5°	510.6	515.6	525.6	540.7	549.5
35°	489.2	495.5	508.1	523.1	533.1
37.5°	467.9	474.2	488.0	506.8	516.8
40°	446.6	452.9	467.9	488.0	500.5
42.5°	422.8	430.3	446.6	470.4	485.5
45°	400.2	407.7	426.5	454.1	470.4
47.5°	375.1	383.9	405.2	436.6	455.4
50°	350.0	360.0	383.9	419.0	439.1
52.5°	323.7	334.9	363.8	400.2	421.5
55°	297.3	309.9	343.7	381.4	402.7
57.5°	271.0	284.8	322.4	361.3	382.6
60°	244.6	259.7	301.1	341.2	362.5
62.5°	218.3	234.6	278.5	318.6	341.2
65°	190.7	210.7	255.9	296.1	317.4
67.5°	163.1	186.9	233.3	272.2	292.3
70°	136.7	163.1	209.5	245.9	264.7
72.5°	111.6	139.2	184.4	215.8	223.3
75°	87.8	116.7	158.1	168.1	170.6
77.5°	67.7	94.1	125.4	128.0	134.2
80°	48.9	71.5	85.3	92.8	95.3
82.5°	33.9	48.9	56.5	57.7	59.0
85°	21.3	26.3	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)