

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: P260301

Luminaire Tested: **22CZ-LD5-29-SQP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260301  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25713)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ-LD5-29-SQP-UNV-L82765-W2A1-U-5700K  
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER  
WITH SQP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1860.0 lumens  
Efficiency: N/A  
Efficacy: 87.0 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

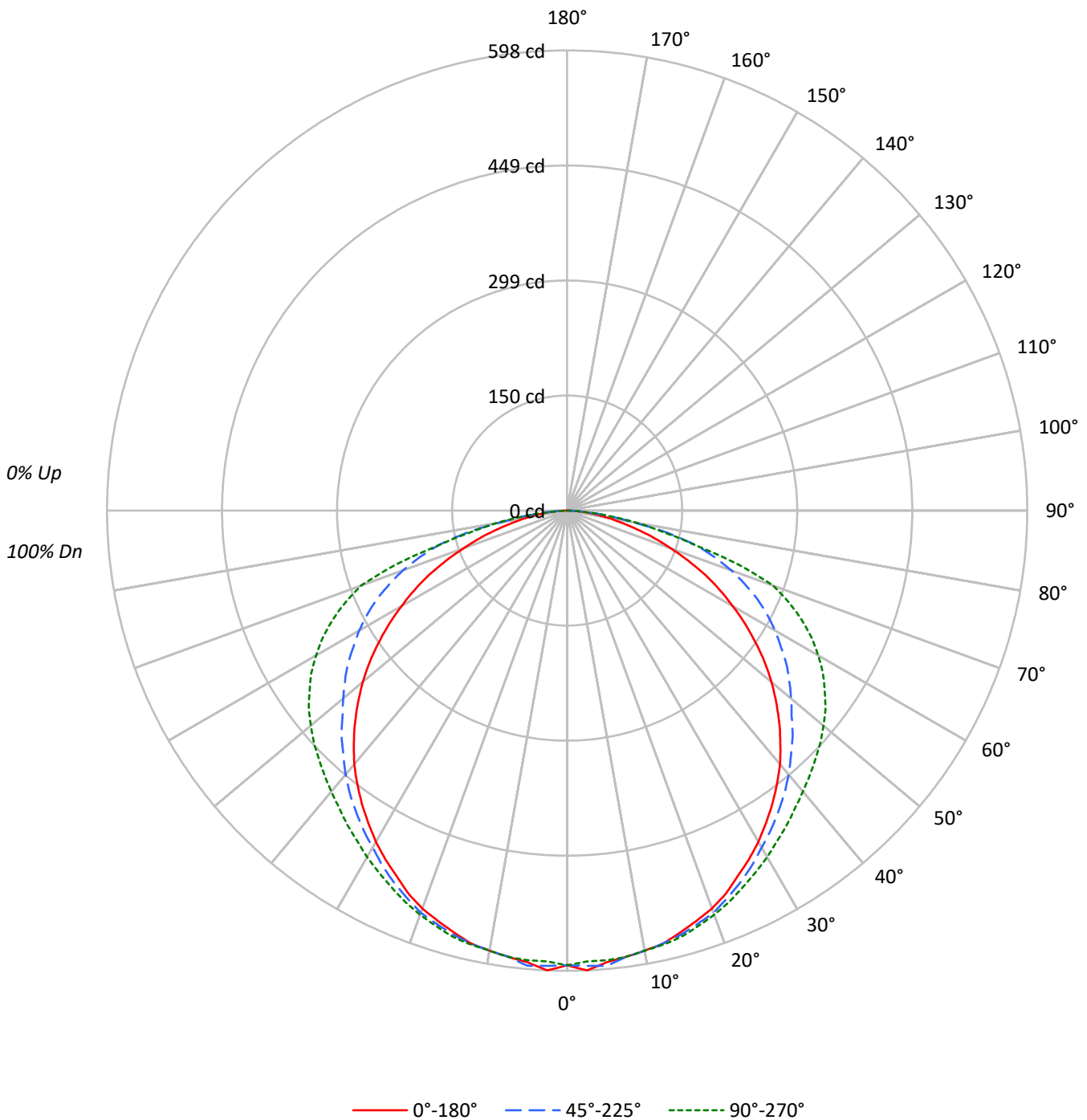
Input Watts (W): 21.39  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1590	1590	1590
5°	1592	1604	1584
10°	1587	1587	1587
15°	1582	1590	1598
20°	1576	1592	1601
25°	1557	1583	1604
30°	1544	1571	1616
35°	1528	1571	1637
40°	1512	1573	1675
45°	1484	1578	1737
50°	1451	1590	1820
55°	1403	1633	1918
60°	1337	1679	2029
65°	1260	1738	2143
70°	1125	1784	2239
75°	976	1787	1772
80°	828	1320	1432
85°	713	892	803



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.1	3.0
10°-20°	161.1	8.7
20°-30°	245.5	13.2
30°-40°	300.4	16.1
40°-50°	323.2	17.4
50°-60°	313.1	16.8
60°-70°	265.2	14.3
70°-80°	160.3	8.6
80°-90°	35.2	1.9
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°	462.7	24.9
0°-40°	763.0	41.0
0°-60°	1399.3	75.2
0°-90°	1860.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1860.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	591	591	591	591	591	
5°	589	589	594	591	586	56
15°	568	569	571	572	574	160
25°	524	527	533	537	540	242
35°	465	468	478	491	498	291
45°	390	397	415	441	456	301
55°	299	312	348	389	409	267
65°	198	220	273	316	337	195
75°	94	127	172	175	170	101
85°	23	27	29	27	26	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	590.8	590.8	590.8	590.8	590.8
2.5°	598.0	596.6	592.2	589.3	586.5
5°	589.3	589.3	593.7	590.8	586.5
7.5°	585.0	585.0	585.0	592.2	585.0
10°	580.7	582.1	580.7	586.5	580.7
12.5°	576.3	576.3	576.3	577.8	577.8
15°	567.7	569.1	570.6	572.0	573.5
17.5°	559.0	560.5	563.3	564.8	566.2
20°	550.3	551.8	556.1	556.1	559.0
22.5°	538.8	538.8	544.6	546.0	550.3
25°	524.3	527.2	533.0	537.3	540.2
27.5°	511.3	514.2	520.0	525.8	530.1
30°	496.9	499.8	505.6	514.2	520.0
32.5°	481.0	483.9	492.6	502.7	508.5
35°	465.1	468.0	478.1	491.1	498.3
37.5°	447.8	452.1	463.7	478.1	486.8
40°	430.5	434.8	447.8	463.7	476.7
42.5°	410.2	416.0	430.5	452.1	466.6
45°	390.0	397.2	414.6	440.6	456.5
47.5°	368.3	375.6	395.8	429.0	446.3
50°	346.7	355.3	379.9	416.0	434.8
52.5°	323.6	332.2	364.0	403.0	423.2
55°	299.0	312.0	348.1	388.6	408.8
57.5°	274.4	288.9	329.3	372.7	394.3
60°	248.4	265.8	312.0	355.3	377.0
62.5°	223.9	242.7	293.2	336.6	358.2
65°	197.9	219.6	273.0	316.3	336.6
67.5°	170.4	197.9	249.9	291.8	312.0
70°	143.0	174.8	226.8	265.8	284.6
72.5°	118.4	151.7	200.8	234.0	234.0
75°	93.9	127.1	171.9	174.8	170.4
77.5°	72.2	104.0	134.3	122.8	125.7
80°	53.4	79.4	85.2	89.6	92.4
82.5°	36.1	53.4	54.9	57.8	57.8
85°	23.1	27.4	28.9	27.4	26.0
87.5°	10.1	11.6	8.7	5.8	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)