

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: P260297

Luminaire Tested: **22CZ-LD5-29-SQP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260297  
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-4000K  
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER  
WITH SQP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1781.0 lumens  
Efficiency: N/A  
Efficacy: 84.4 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

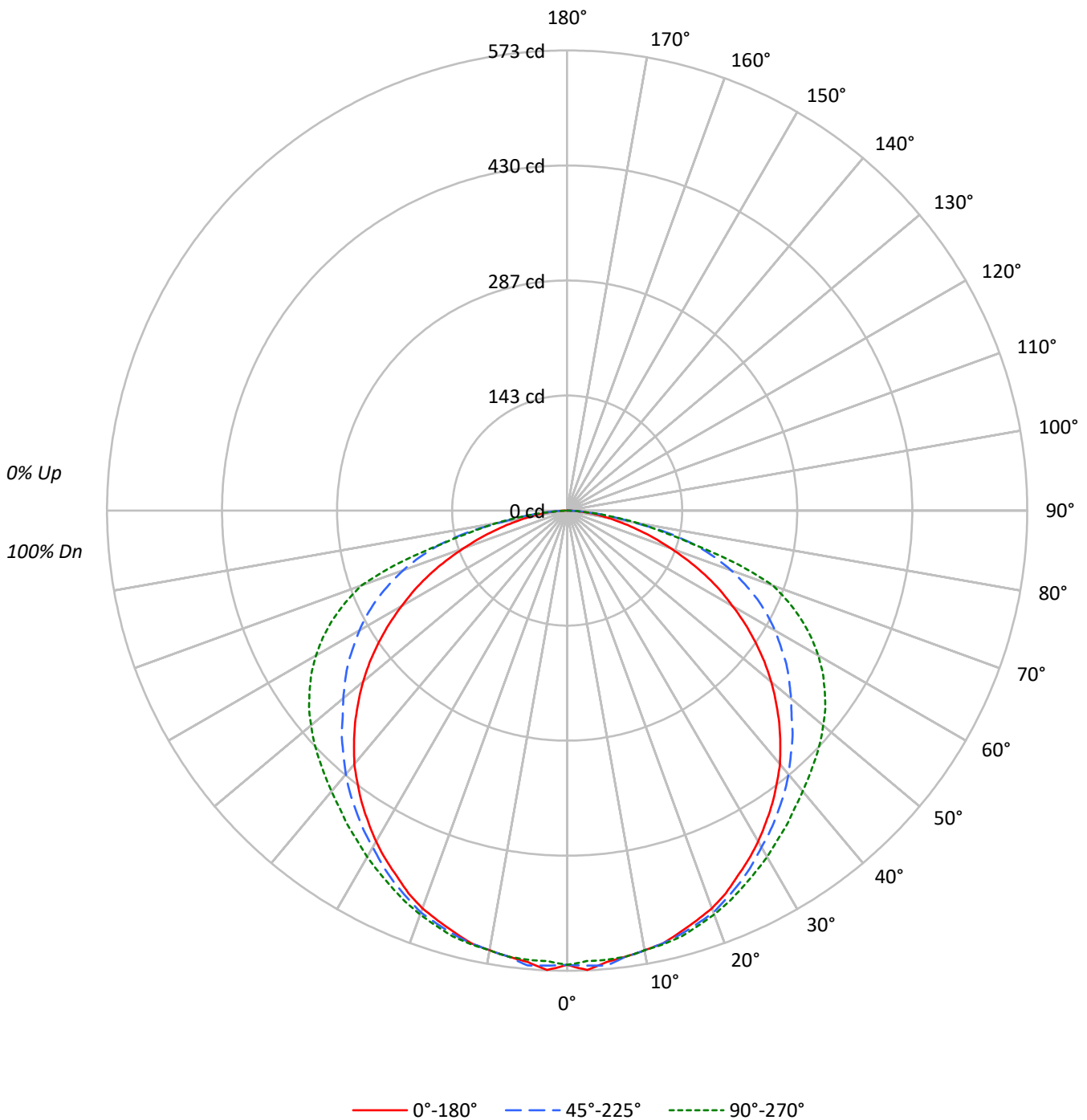
Input Watts (W): 21.111  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1522	1522	1522
5°	1524	1536	1517
10°	1519	1519	1519
15°	1514	1522	1530
20°	1509	1525	1533
25°	1491	1515	1536
30°	1478	1504	1547
35°	1463	1504	1568
40°	1448	1506	1603
45°	1421	1511	1663
50°	1389	1523	1743
55°	1343	1564	1836
60°	1280	1608	1943
65°	1207	1664	2052
70°	1077	1708	2144
75°	935	1711	1697
80°	793	1265	1371
85°	682	855	769



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.7	3.0
10°-20°	154.2	8.7
20°-30°	235.1	13.2
30°-40°	287.6	16.1
40°-50°	309.5	17.4
50°-60°	299.8	16.8
60°-70°	253.9	14.3
70°-80°	153.5	8.6
80°-90°	33.7	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°	443.0	24.9
0°-40°	730.6	41.0
0°-60°	1339.8	75.2
0°-90°	1781.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1781.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	566	566	566	566	566	
5°	564	564	568	566	562	54
15°	544	545	546	548	549	154
25°	502	505	510	514	517	232
35°	445	448	458	470	477	279
45°	373	380	397	422	437	288
55°	286	299	333	372	391	256
65°	190	210	261	303	322	187
75°	90	122	165	167	163	97
85°	22	26	28	26	25	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	565.7	565.7	565.7	565.7	565.7
2.5°	572.6	571.2	567.1	564.3	561.5
5°	564.3	564.3	568.5	565.7	561.5
7.5°	560.2	560.2	560.2	567.1	560.2
10°	556.0	557.4	556.0	561.5	556.0
12.5°	551.9	551.9	551.9	553.2	553.2
15°	543.6	544.9	546.3	547.7	549.1
17.5°	535.3	536.6	539.4	540.8	542.2
20°	527.0	528.3	532.5	532.5	535.3
22.5°	515.9	515.9	521.4	522.8	527.0
25°	502.1	504.8	510.4	514.5	517.3
27.5°	489.6	492.4	497.9	503.5	507.6
30°	475.8	478.6	484.1	492.4	497.9
32.5°	460.6	463.3	471.6	481.3	486.9
35°	445.4	448.1	457.8	470.3	477.2
37.5°	428.8	432.9	444.0	457.8	466.1
40°	412.2	416.3	428.8	444.0	456.4
42.5°	392.8	398.3	412.2	432.9	446.7
45°	373.4	380.4	397.0	421.8	437.1
47.5°	352.7	359.6	379.0	410.8	427.4
50°	331.9	340.2	363.8	398.3	416.3
52.5°	309.8	318.1	348.5	385.9	405.3
55°	286.3	298.8	333.3	372.1	391.4
57.5°	262.8	276.6	315.3	356.8	377.6
60°	237.9	254.5	298.8	340.2	361.0
62.5°	214.4	232.4	280.8	322.3	343.0
65°	189.5	210.2	261.4	302.9	322.3
67.5°	163.2	189.5	239.3	279.4	298.8
70°	136.9	167.4	217.1	254.5	272.5
72.5°	113.4	145.2	192.3	224.1	224.1
75°	89.9	121.7	164.6	167.4	163.2
77.5°	69.2	99.6	128.6	117.6	120.3
80°	51.2	76.1	81.6	85.8	88.5
82.5°	34.6	51.2	52.6	55.3	55.3
85°	22.1	26.3	27.7	26.3	24.9
87.5°	9.7	11.1	8.3	5.5	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)