

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: P260222

Luminaire Tested: **22CZ-LD5-24-SQP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260222  
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-LD5-24-SQP-UNV-L83050-W2A1-U-3500K  
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER  
WITH SQP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1526.0 lumens  
Efficiency: N/A  
Efficacy: 86.8 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

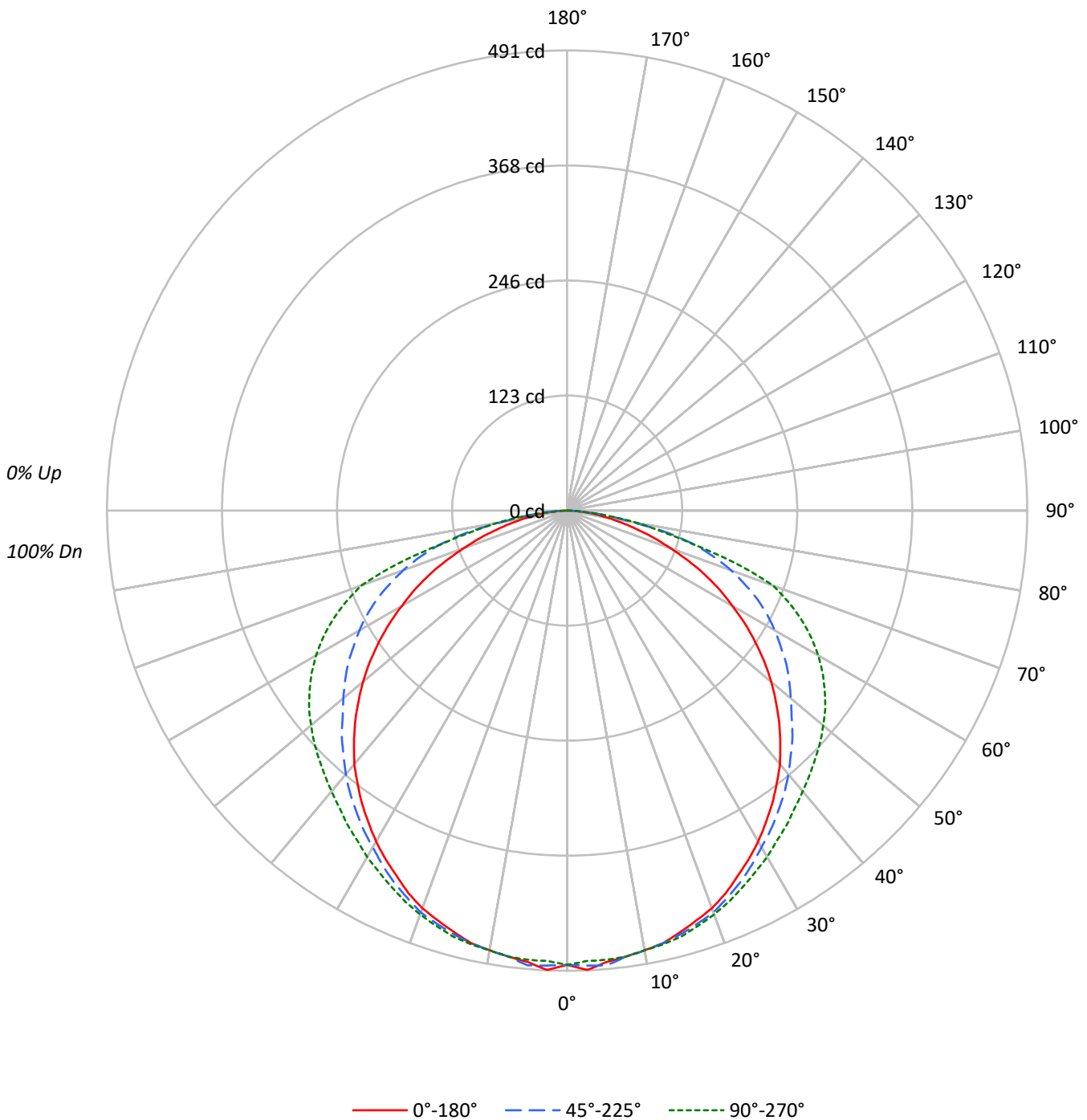
Input Watts (W): 17.577  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1304	1304	1304
5°	1306	1316	1300
10°	1302	1302	1302
15°	1297	1304	1311
20°	1293	1307	1313
25°	1277	1298	1316
30°	1267	1289	1326
35°	1254	1289	1343
40°	1241	1291	1374
45°	1218	1294	1425
50°	1191	1305	1493
55°	1151	1340	1574
60°	1097	1378	1665
65°	1034	1426	1758
70°	923	1464	1837
75°	801	1466	1454
80°	679	1083	1175
85°	587	732	658



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.0	3.0
10°-20°	132.2	8.7
20°-30°	201.4	13.2
30°-40°	246.4	16.1
40°-50°	265.2	17.4
50°-60°	256.8	16.8
60°-70°	217.6	14.3
70°-80°	131.5	8.6
80°-90°	28.9	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°	379.6	24.9
0°-40°	626.0	41.0
0°-60°	1148.0	75.2
0°-90°	1526.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1526.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	485	485	485	485	485	
5°	484	484	487	485	481	46
15°	466	467	468	469	470	132
25°	430	433	437	441	443	199
35°	382	384	392	403	409	239
45°	320	326	340	362	374	247
55°	245	256	286	319	335	219
65°	162	180	224	260	276	160
75°	77	104	141	143	140	83
85°	19	22	24	22	21	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	484.7	484.7	484.7	484.7	484.7
2.5°	490.6	489.4	485.9	483.5	481.1
5°	483.5	483.5	487.1	484.7	481.1
7.5°	480.0	480.0	480.0	485.9	480.0
10°	476.4	477.6	476.4	481.1	476.4
12.5°	472.8	472.8	472.8	474.0	474.0
15°	465.7	466.9	468.1	469.3	470.5
17.5°	458.6	459.8	462.2	463.4	464.6
20°	451.5	452.7	456.3	456.3	458.6
22.5°	442.0	442.0	446.8	448.0	451.5
25°	430.2	432.6	437.3	440.9	443.2
27.5°	419.5	421.9	426.6	431.4	434.9
30°	407.7	410.0	414.8	421.9	426.6
32.5°	394.6	397.0	404.1	412.4	417.1
35°	381.6	384.0	392.3	402.9	408.9
37.5°	367.4	370.9	380.4	392.3	399.4
40°	353.2	356.7	367.4	380.4	391.1
42.5°	336.6	341.3	353.2	370.9	382.8
45°	320.0	325.9	340.1	361.5	374.5
47.5°	302.2	308.1	324.7	352.0	366.2
50°	284.4	291.5	311.7	341.3	356.7
52.5°	265.5	272.6	298.6	330.6	347.2
55°	245.3	256.0	285.6	318.8	335.4
57.5°	225.2	237.0	270.2	305.8	323.5
60°	203.8	218.1	256.0	291.5	309.3
62.5°	183.7	199.1	240.6	276.1	293.9
65°	162.4	180.1	224.0	259.5	276.1
67.5°	139.8	162.4	205.0	239.4	256.0
70°	117.3	143.4	186.1	218.1	233.5
72.5°	97.2	124.4	164.7	192.0	192.0
75°	77.0	104.3	141.0	143.4	139.8
77.5°	59.3	85.3	110.2	100.7	103.1
80°	43.8	65.2	69.9	73.5	75.8
82.5°	29.6	43.8	45.0	47.4	47.4
85°	19.0	22.5	23.7	22.5	21.3
87.5°	8.3	9.5	7.1	4.7	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)