

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: P260447

Luminaire Tested: **22CZ-LD5-20-RDP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260447  
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-LD5-20-RDP-UNV-L82765-W2A1-U-4000K  
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1589.0 lumens  
Efficiency: N/A  
Efficacy: 101.1 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

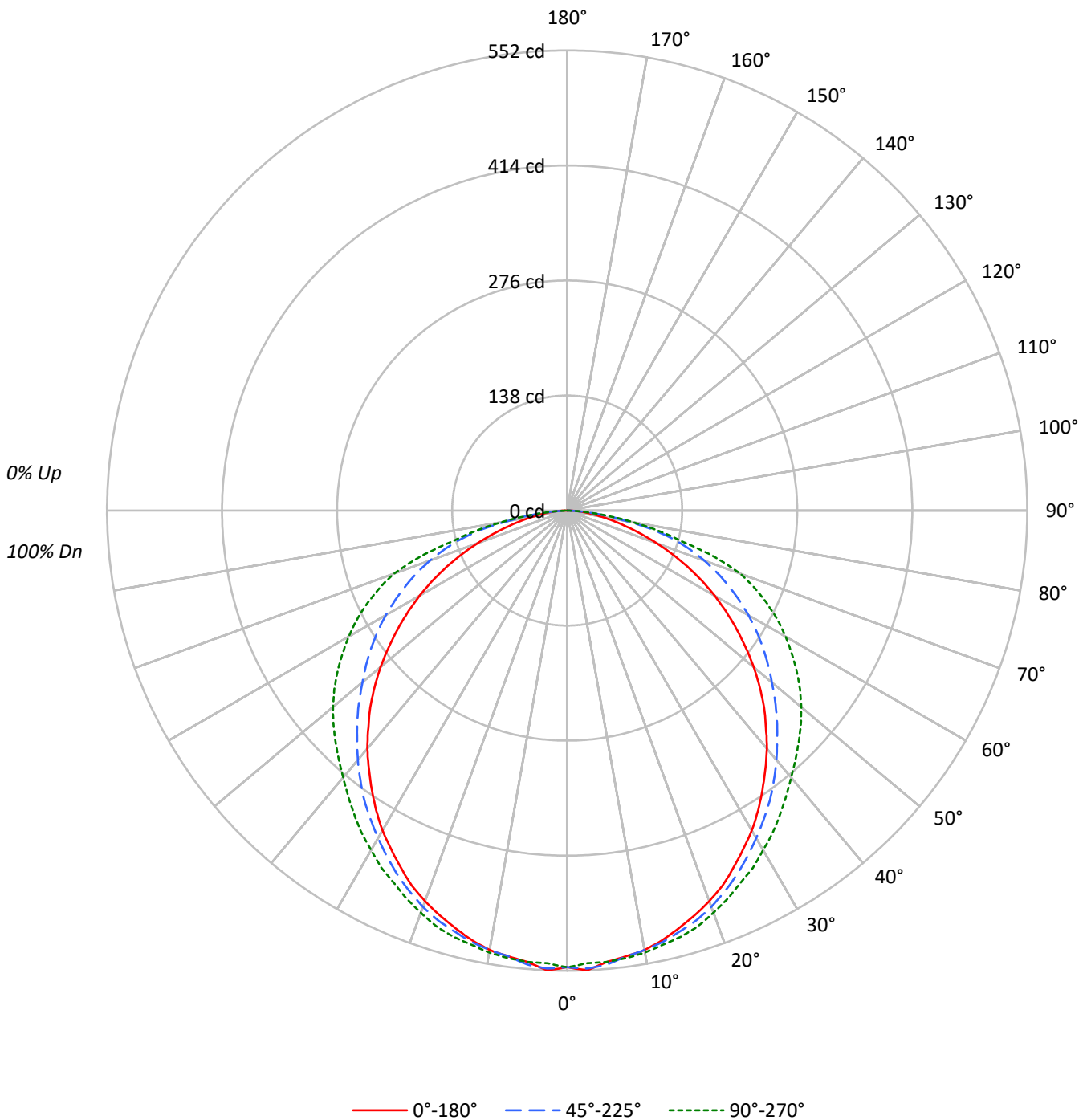
Input Watts (W): 15.717  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1474	1474	1474
5°	1468	1477	1468
10°	1463	1463	1471
15°	1444	1456	1474
20°	1428	1449	1470
25°	1403	1431	1462
30°	1377	1409	1461
35°	1342	1394	1463
40°	1310	1372	1468
45°	1271	1355	1495
50°	1223	1342	1535
55°	1165	1346	1577
60°	1100	1353	1629
65°	1014	1361	1687
70°	899	1376	1739
75°	762	1372	1482
80°	634	1103	1234
85°	550	744	710



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.8	3.3
10°-20°	147.6	9.3
20°-30°	222.1	14.0
30°-40°	266.2	16.8
40°-50°	277.6	17.5
50°-60°	258.4	16.3
60°-70°	209.9	13.2
70°-80°	126.5	8.0
80°-90°	29.0	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°	421.5	26.5
0°-40°	687.7	43.3
0°-60°	1223.7	77.0
0°-90°	1589.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1589.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	548	548	548	548	548	
5°	544	544	547	548	544	52
15°	518	521	523	526	529	146
25°	472	476	482	488	492	218
35°	408	414	424	437	445	256
45°	334	340	356	379	393	257
55°	248	259	287	318	336	222
65°	159	176	214	247	265	157
75°	73	97	132	140	142	79
85°	18	22	24	23	23	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	547.8	547.8	547.8	547.8	547.8
2.5°	552.0	551.0	549.9	546.8	543.6
5°	543.6	543.6	546.8	547.8	543.6
7.5°	539.4	539.4	539.4	543.6	541.5
10°	535.3	535.3	535.3	538.4	538.4
12.5°	527.9	529.0	530.0	531.1	533.2
15°	518.5	520.6	522.7	525.8	529.0
17.5°	509.1	511.2	515.4	518.5	522.7
20°	498.6	500.7	505.9	509.1	513.3
22.5°	487.1	488.1	494.4	498.6	503.8
25°	472.4	475.6	481.8	488.1	492.3
27.5°	457.7	460.9	468.2	476.6	482.9
30°	443.1	446.2	453.6	464.0	470.3
32.5°	426.3	430.5	438.9	451.5	458.8
35°	408.5	413.8	424.2	436.8	445.2
37.5°	390.7	395.9	407.5	423.2	431.6
40°	372.9	378.1	390.7	407.5	417.9
42.5°	353.0	359.3	372.9	392.8	405.4
45°	334.1	340.4	356.1	379.2	392.8
47.5°	313.2	320.5	338.3	364.5	380.2
50°	292.2	300.6	320.5	349.9	366.6
52.5°	270.2	279.7	303.8	334.1	352.0
55°	248.3	258.7	287.0	318.4	336.2
57.5°	226.3	237.8	269.2	301.7	319.5
60°	204.3	216.8	251.4	284.9	302.7
62.5°	182.3	195.9	232.5	266.1	284.9
65°	159.2	176.0	213.7	247.2	265.0
67.5°	136.2	156.1	194.8	227.3	244.1
70°	114.2	136.2	174.9	205.3	221.0
72.5°	93.2	116.3	154.0	180.2	186.4
75°	73.3	97.4	132.0	140.4	142.5
77.5°	56.6	78.6	104.7	106.8	112.1
80°	40.9	59.7	71.2	77.5	79.6
82.5°	28.3	40.9	47.1	48.2	49.2
85°	17.8	22.0	24.1	23.0	23.0
87.5°	9.4	8.4	7.3	5.2	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)