

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: P277562

Luminaire Tested: **22CZ2-24HE-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P277562  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-24)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-24HE-RDP-UNV-L82765-W2A1-U-5000K  
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1565.0 lumens  
Efficiency: N/A  
Efficacy: 87.2 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

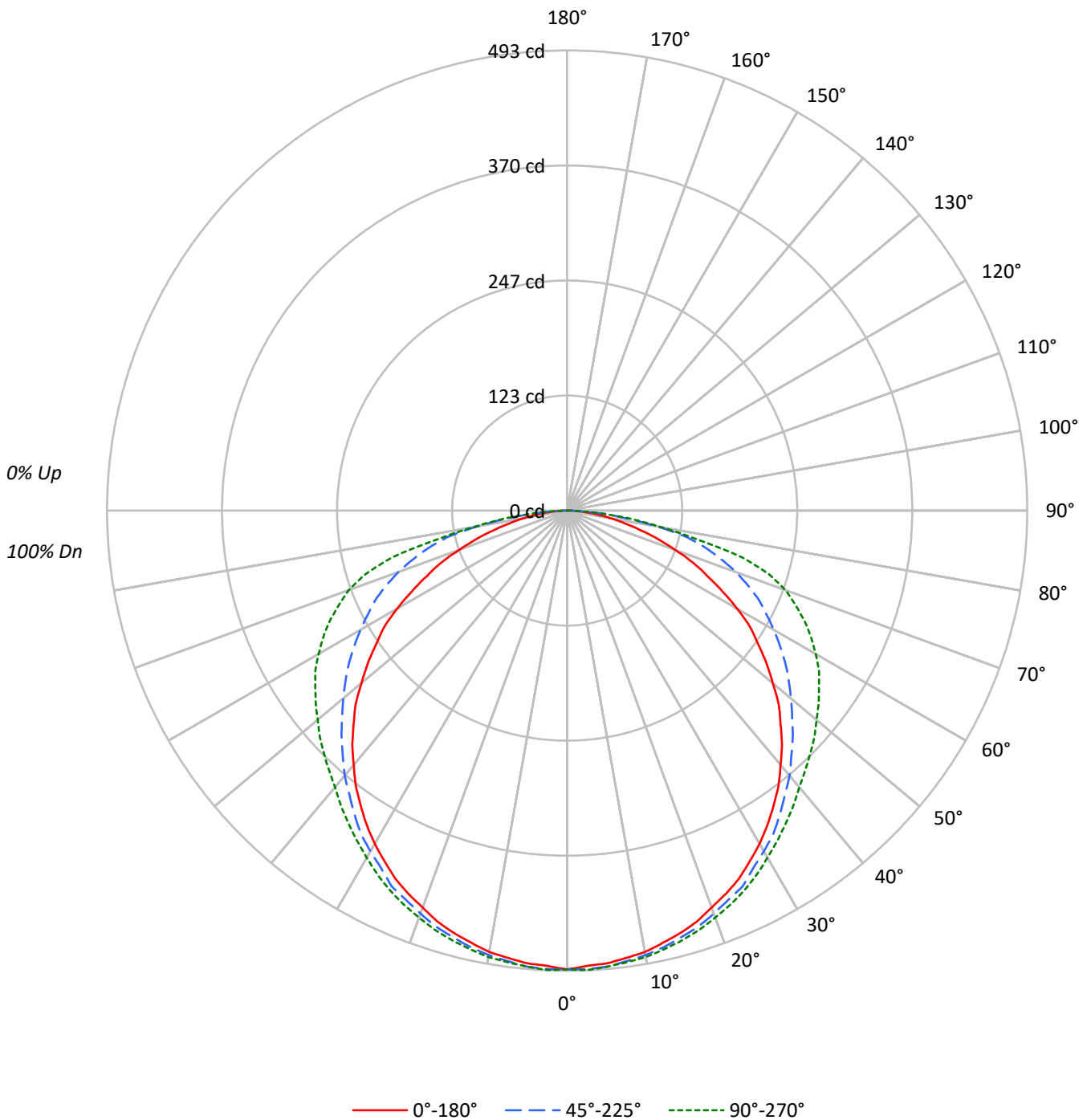
Input Watts (W): 17.949  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

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

	0°	45°	90°
0°	1323	1323	1323
5°	1316	1325	1325
10°	1312	1321	1327
15°	1305	1318	1328
20°	1296	1316	1329
25°	1292	1319	1333
30°	1281	1309	1334
35°	1267	1305	1343
40°	1250	1302	1359
45°	1231	1301	1402
50°	1205	1311	1460
55°	1172	1339	1545
60°	1134	1376	1654
65°	1056	1444	1789
70°	969	1513	1957
75°	849	1592	2023
80°	731	1517	1588
85°	639	1102	1207



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.5	3.0
10°-20°	133.5	8.5
20°-30°	203.7	13.0
30°-40°	248.7	15.9
40°-50°	265.9	17.0
50°-60°	256.7	16.4
60°-70°	221.0	14.1
70°-80°	149.5	9.6
80°-90°	39.4	2.5
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°	383.7	24.5
0°-40°	632.4	40.4
0°-60°	1155.1	73.8
0°-90°	1565.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1565.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	492	492	492	492	492	
5°	487	488	490	490	490	46
15°	469	470	473	476	477	132
25°	435	438	444	447	449	200
35°	386	389	397	405	409	241
45°	324	329	342	359	368	250
55°	250	258	286	314	329	224
65°	166	182	227	262	281	165
75°	82	108	153	184	195	88
85°	21	29	36	37	39	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	491.6	491.6	491.6	491.6	491.6
2.5°	488.1	489.3	491.6	491.6	492.7
5°	487.0	488.1	490.4	490.4	490.4
7.5°	483.5	484.7	487.0	488.1	488.1
10°	480.1	481.2	483.5	484.7	485.8
12.5°	474.3	475.5	478.9	481.2	481.2
15°	468.6	469.7	473.2	475.5	476.6
17.5°	461.7	464.0	467.4	469.7	470.9
20°	452.5	454.8	459.4	462.8	464.0
22.5°	444.4	446.7	451.3	454.8	457.1
25°	435.2	437.5	444.4	446.7	449.0
27.5°	423.7	426.0	431.7	436.3	439.8
30°	412.2	414.5	421.4	427.1	429.4
32.5°	399.5	402.9	411.0	415.6	419.1
35°	385.7	389.1	397.2	405.2	408.7
37.5°	371.9	375.3	383.4	393.7	398.3
40°	355.7	360.3	370.7	384.5	386.8
42.5°	340.8	346.5	355.7	371.9	377.6
45°	323.5	329.3	341.9	359.2	368.4
47.5°	307.4	313.1	327.0	347.7	359.2
50°	287.8	295.9	313.1	337.3	348.8
52.5°	269.4	276.3	299.3	325.8	339.6
55°	249.8	257.9	285.5	314.3	329.3
57.5°	232.6	239.5	270.5	302.8	320.1
60°	210.7	219.9	255.6	290.1	307.4
62.5°	187.7	201.5	240.6	276.3	294.7
65°	165.8	181.9	226.8	262.5	280.9
67.5°	146.2	163.5	209.5	247.5	264.8
70°	123.2	145.1	192.3	229.1	248.7
72.5°	102.5	126.6	172.7	209.5	226.8
75°	81.7	108.2	153.1	184.2	194.6
77.5°	63.3	88.6	131.2	140.5	141.6
80°	47.2	70.2	97.9	99.0	102.5
82.5°	32.2	49.5	63.3	69.1	70.2
85°	20.7	28.8	35.7	36.8	39.1
87.5°	9.2	10.4	12.7	11.5	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)