

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: P277561

Luminaire Tested: **22CZ2-24HE-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P277561  
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-4500K  
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1544.0 lumens  
Efficiency: N/A  
Efficacy: 86.0 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

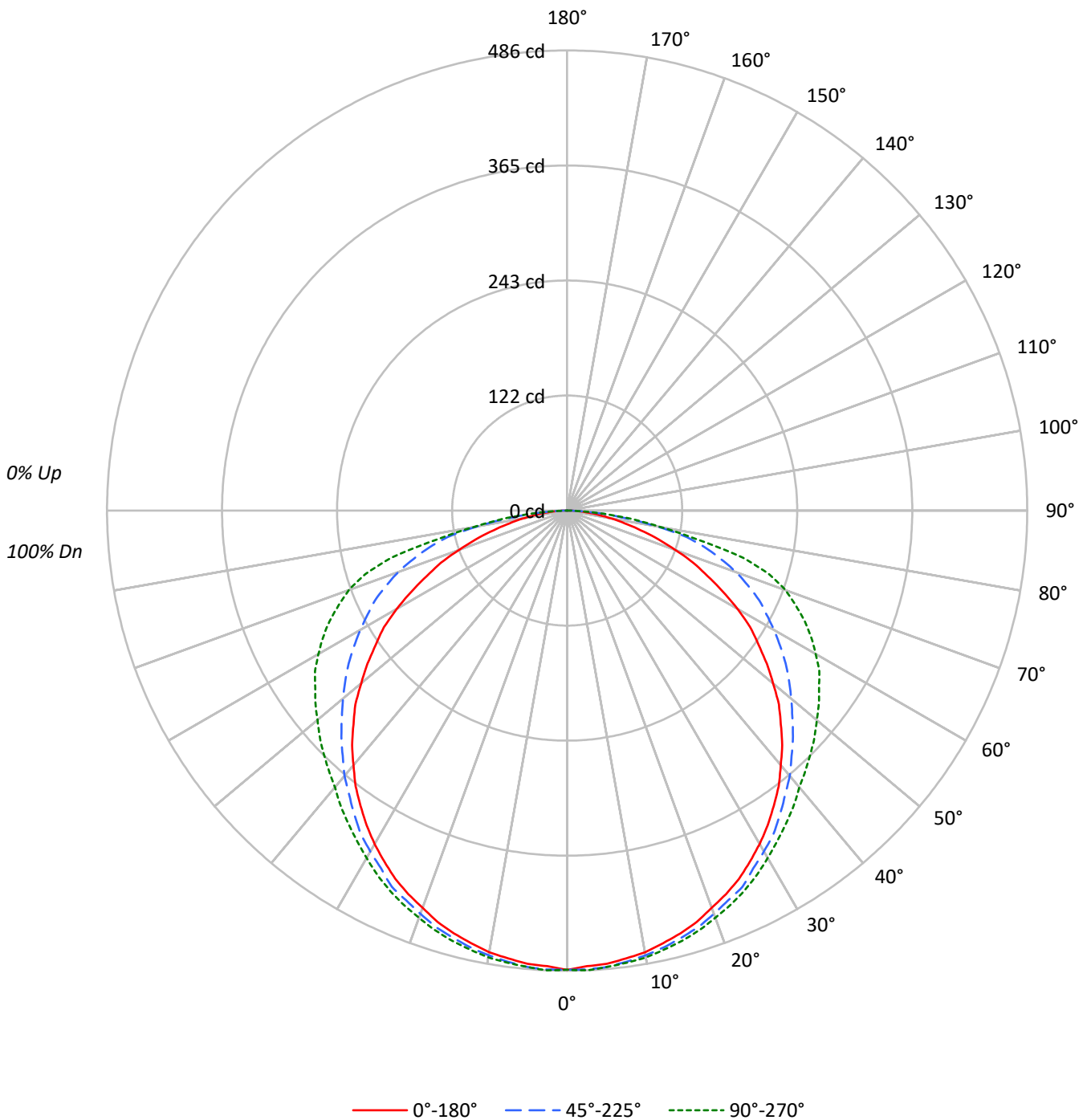
Input Watts (W): 17.949  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1305	1305	1305
5°	1298	1307	1307
10°	1294	1303	1310
15°	1288	1300	1310
20°	1278	1298	1311
25°	1275	1302	1315
30°	1263	1292	1317
35°	1250	1287	1325
40°	1233	1285	1340
45°	1215	1284	1383
50°	1189	1293	1441
55°	1156	1322	1524
60°	1119	1357	1632
65°	1042	1425	1764
70°	956	1493	1930
75°	838	1571	1996
80°	722	1495	1567
85°	630	1087	1192



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.9	3.0
10°-20°	131.7	8.5
20°-30°	201.0	13.0
30°-40°	245.4	15.9
40°-50°	262.4	17.0
50°-60°	253.2	16.4
60°-70°	218.0	14.1
70°-80°	147.5	9.6
80°-90°	38.9	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°	378.6	24.5
0°-40°	624.0	40.4
0°-60°	1139.6	73.8
0°-90°	1544.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1544.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	485	485	485	485	485	
5°	480	482	484	484	484	46
15°	462	463	467	469	470	130
25°	429	432	438	441	443	198
35°	380	384	392	400	403	238
45°	319	325	337	354	364	246
55°	246	254	282	310	325	221
65°	164	180	224	259	277	163
75°	81	107	151	182	192	87
85°	20	28	35	36	39	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	485.0	485.0	485.0	485.0	485.0
2.5°	481.6	482.7	485.0	485.0	486.1
5°	480.5	481.6	483.9	483.9	483.9
7.5°	477.0	478.2	480.5	481.6	481.6
10°	473.6	474.8	477.0	478.2	479.3
12.5°	468.0	469.1	472.5	474.8	474.8
15°	462.3	463.4	466.8	469.1	470.2
17.5°	455.5	457.7	461.1	463.4	464.6
20°	446.4	448.7	453.2	456.6	457.7
22.5°	438.4	440.7	445.2	448.7	450.9
25°	429.3	431.6	438.4	440.7	443.0
27.5°	418.0	420.3	425.9	430.5	433.9
30°	406.6	408.9	415.7	421.4	423.7
32.5°	394.1	397.5	405.5	410.0	413.4
35°	380.5	383.9	391.9	399.8	403.2
37.5°	366.9	370.3	378.2	388.5	393.0
40°	351.0	355.5	365.7	379.4	381.6
42.5°	336.2	341.9	351.0	366.9	372.6
45°	319.2	324.8	337.3	354.4	363.5
47.5°	303.3	308.9	322.6	343.0	354.4
50°	284.0	291.9	308.9	332.8	344.2
52.5°	265.8	272.6	295.3	321.4	335.1
55°	246.5	254.4	281.7	310.1	324.8
57.5°	229.4	236.3	266.9	298.7	315.8
60°	207.9	216.9	252.2	286.2	303.3
62.5°	185.1	198.8	237.4	272.6	290.8
65°	163.6	179.5	223.8	259.0	277.1
67.5°	144.2	161.3	206.7	244.2	261.2
70°	121.5	143.1	189.7	226.0	245.3
72.5°	101.1	124.9	170.4	206.7	223.8
75°	80.6	106.8	151.1	181.7	192.0
77.5°	62.5	87.5	129.5	138.6	139.7
80°	46.6	69.3	96.5	97.7	101.1
82.5°	31.8	48.8	62.5	68.1	69.3
85°	20.4	28.4	35.2	36.3	38.6
87.5°	9.1	10.2	12.5	11.4	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)