

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: P277565

Luminaire Tested: **22CZ2-24HE-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277565
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-6500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1589.0 lumens
Efficiency: N/A
Efficacy: 86.7 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

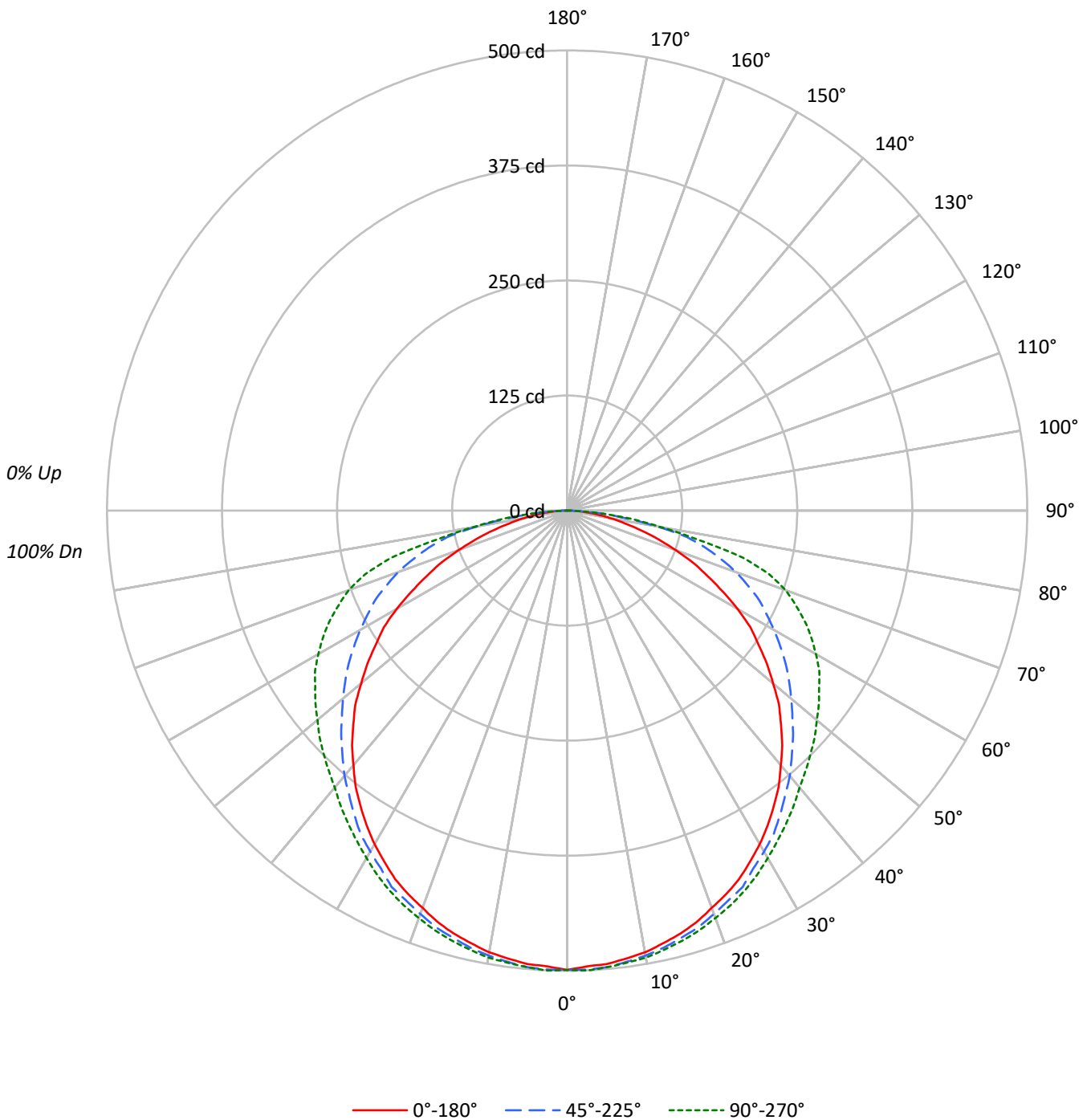
Input Watts (W): 18.321
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1343	1343	1343
5°	1336	1345	1345
10°	1332	1342	1348
15°	1326	1338	1348
20°	1316	1336	1349
25°	1312	1340	1354
30°	1300	1329	1355
35°	1286	1325	1363
40°	1269	1322	1380
45°	1250	1321	1424
50°	1223	1331	1483
55°	1190	1360	1568
60°	1151	1397	1680
65°	1072	1466	1816
70°	984	1536	1987
75°	863	1617	2053
80°	742	1540	1612
85°	648	1118	1226



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.2	3.0
10°-20°	135.6	8.5
20°-30°	206.8	13.0
30°-40°	252.5	15.9
40°-50°	270.0	17.0
50°-60°	260.6	16.4
60°-70°	224.4	14.1
70°-80°	151.8	9.6
80°-90°	40.0	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°	389.6	24.5
0°-40°	642.1	40.4
0°-60°	1172.8	73.8
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°	499	499	499	499	499	
5°	494	496	498	498	498	47
15°	476	477	480	483	484	134
25°	442	444	451	454	456	203
35°	392	395	403	412	415	245
45°	328	334	347	365	374	254
55°	254	262	290	319	334	227
65°	168	185	230	266	285	167
75°	83	110	156	187	198	89
85°	21	29	36	37	40	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	499.1	499.1	499.1	499.1	499.1
2.5°	495.6	496.8	499.1	499.1	500.3
5°	494.5	495.6	498.0	498.0	498.0
7.5°	491.0	492.1	494.5	495.6	495.6
10°	487.4	488.6	491.0	492.1	493.3
12.5°	481.6	482.8	486.3	488.6	488.6
15°	475.8	476.9	480.4	482.8	483.9
17.5°	468.7	471.1	474.6	476.9	478.1
20°	459.4	461.7	466.4	469.9	471.1
22.5°	451.2	453.5	458.2	461.7	464.1
25°	441.9	444.2	451.2	453.5	455.9
27.5°	430.2	432.5	438.3	443.0	446.5
30°	418.5	420.8	427.8	433.7	436.0
32.5°	405.6	409.1	417.3	422.0	425.5
35°	391.6	395.1	403.3	411.5	415.0
37.5°	377.6	381.1	389.3	399.8	404.4
40°	361.2	365.9	376.4	390.4	392.8
42.5°	346.0	351.8	361.2	377.6	383.4
45°	328.5	334.3	347.2	364.7	374.1
47.5°	312.1	317.9	332.0	353.0	364.7
50°	292.2	300.4	317.9	342.5	354.2
52.5°	273.5	280.5	303.9	330.8	344.8
55°	253.7	261.8	289.9	319.1	334.3
57.5°	236.1	243.1	274.7	307.4	325.0
60°	213.9	223.3	259.5	294.6	312.1
62.5°	190.5	204.6	244.3	280.5	299.2
65°	168.3	184.7	230.3	266.5	285.2
67.5°	148.5	166.0	212.7	251.3	268.9
70°	125.1	147.3	195.2	232.6	252.5
72.5°	104.0	128.6	175.3	212.7	230.3
75°	83.0	109.9	155.5	187.0	197.5
77.5°	64.3	90.0	133.3	142.6	143.8
80°	47.9	71.3	99.4	100.5	104.0
82.5°	32.7	50.3	64.3	70.1	71.3
85°	21.0	29.2	36.2	37.4	39.7
87.5°	9.4	10.5	12.9	11.7	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)