

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: P277495

Luminaire Tested: **22CZ2-24HE-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277495
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-L83050-W2A1-U-4000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1596.0 lumens
Efficiency: N/A
Efficacy: 88.9 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

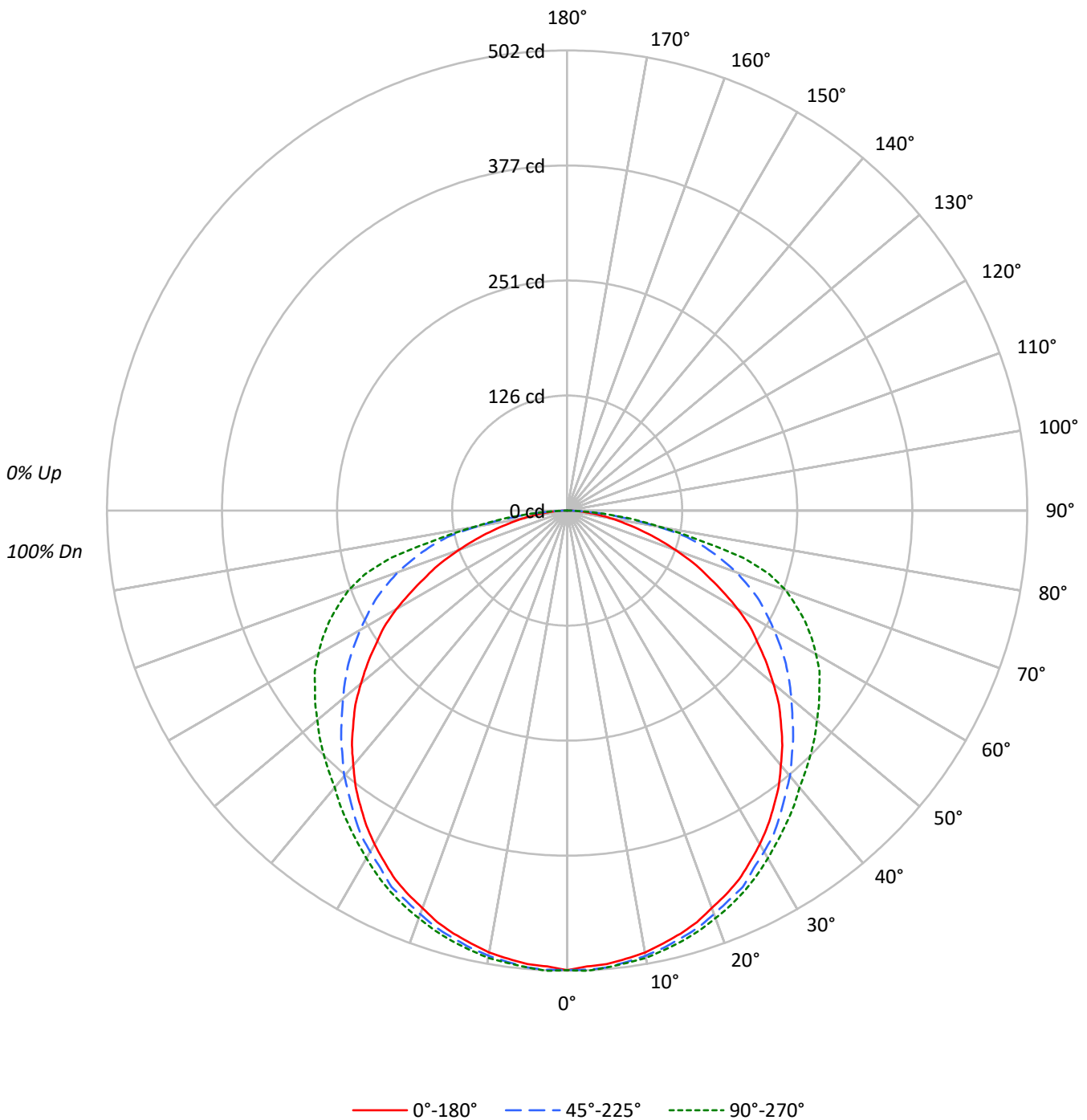
Input Watts (W): 17.949
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1349	1349	1349
5°	1341	1351	1351
10°	1338	1347	1354
15°	1331	1344	1354
20°	1321	1342	1355
25°	1318	1346	1360
30°	1306	1335	1361
35°	1292	1331	1369
40°	1274	1328	1386
45°	1255	1327	1430
50°	1229	1337	1489
55°	1195	1366	1575
60°	1157	1403	1687
65°	1077	1473	1824
70°	988	1543	1995
75°	867	1624	2063
80°	745	1547	1619
85°	651	1124	1232



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.4	3.0
10°-20°	136.2	8.5
20°-30°	207.7	13.0
30°-40°	253.6	15.9
40°-50°	271.2	17.0
50°-60°	261.8	16.4
60°-70°	225.3	14.1
70°-80°	152.5	9.6
80°-90°	40.2	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°	391.3	24.5
0°-40°	645.0	40.4
0°-60°	1178.0	73.8
0°-90°	1596.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1596.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	501	501	501	501	501	
5°	497	498	500	500	500	47
15°	478	479	482	485	486	135
25°	444	446	453	456	458	204
35°	393	397	405	413	417	246
45°	330	336	349	366	376	255
55°	255	263	291	320	336	228
65°	169	186	231	268	286	168
75°	83	110	156	188	198	89
85°	21	29	36	38	40	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	501.3	501.3	501.3	501.3	501.3
2.5°	497.8	499.0	501.3	501.3	502.5
5°	496.6	497.8	500.2	500.2	500.2
7.5°	493.1	494.3	496.6	497.8	497.8
10°	489.6	490.8	493.1	494.3	495.5
12.5°	483.7	484.9	488.4	490.8	490.8
15°	477.8	479.0	482.5	484.9	486.1
17.5°	470.8	473.2	476.7	479.0	480.2
20°	461.4	463.8	468.5	472.0	473.2
22.5°	453.2	455.5	460.2	463.8	466.1
25°	443.8	446.1	453.2	455.5	457.9
27.5°	432.1	434.4	440.3	445.0	448.5
30°	420.3	422.7	429.7	435.6	437.9
32.5°	407.4	410.9	419.1	423.8	427.4
35°	393.3	396.8	405.1	413.3	416.8
37.5°	379.2	382.7	391.0	401.5	406.2
40°	362.8	367.5	378.1	392.1	394.5
42.5°	347.5	353.4	362.8	379.2	385.1
45°	329.9	335.8	348.7	366.3	375.7
47.5°	313.5	319.3	333.4	354.6	366.3
50°	293.5	301.7	319.3	344.0	355.7
52.5°	274.7	281.8	305.3	332.3	346.4
55°	254.8	263.0	291.2	320.5	335.8
57.5°	237.2	244.2	275.9	308.8	326.4
60°	214.9	224.2	260.6	295.9	313.5
62.5°	191.4	205.5	245.4	281.8	300.6
65°	169.1	185.5	231.3	267.7	286.5
67.5°	149.1	166.7	213.7	252.4	270.0
70°	125.6	147.9	196.1	233.6	253.6
72.5°	104.5	129.1	176.1	213.7	231.3
75°	83.4	110.4	156.2	187.9	198.4
77.5°	64.6	90.4	133.8	143.2	144.4
80°	48.1	71.6	99.8	101.0	104.5
82.5°	32.9	50.5	64.6	70.4	71.6
85°	21.1	29.4	36.4	37.6	39.9
87.5°	9.4	10.6	12.9	11.7	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)