

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: P259407

Luminaire Tested: **22CZ-LD5-20-S-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259407
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25712)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-20-S-UNV-L93050-W2A1-U-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1873.0 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

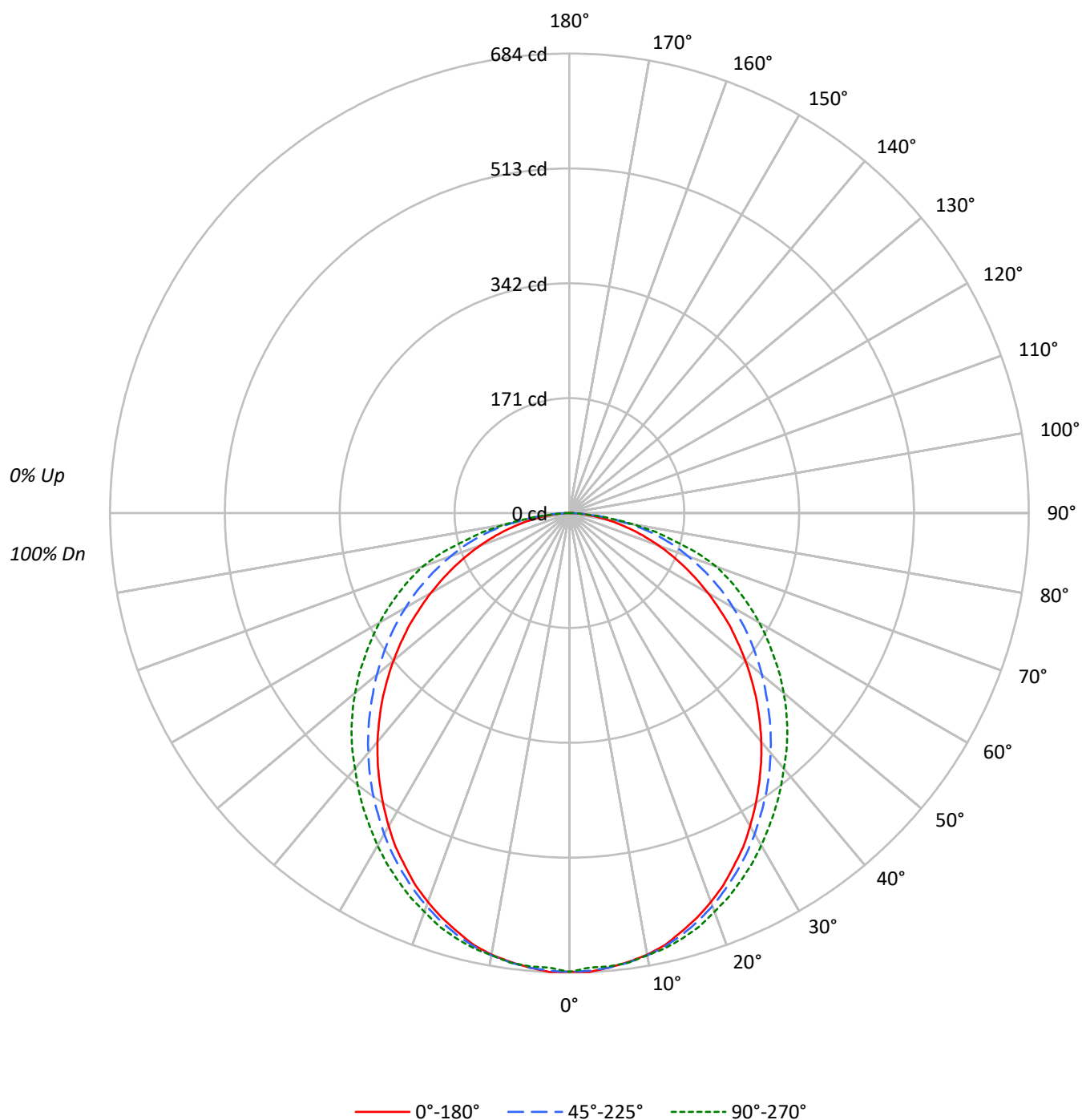
Input Watts (W): 15.826089
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32
9	56	43	35	29	55	42	34	29	41	34	29	40	34	29	39	33	29
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1837	1837	1837
5°	1835	1835	1830
10°	1824	1826	1826
15°	1797	1809	1824
20°	1765	1783	1808
25°	1720	1750	1792
30°	1672	1714	1775
35°	1617	1676	1759
40°	1561	1637	1744
45°	1499	1599	1746
50°	1431	1567	1744
55°	1363	1541	1743
60°	1283	1516	1758
65°	1203	1495	1782
70°	1111	1479	1826
75°	1001	1468	1693
80°	879	1367	1478
85°	722	1028	917



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.5	3.4
10°-20°	183.2	9.8
20°-30°	272.1	14.5
30°-40°	320.2	17.1
40°-50°	326.5	17.4
50°-60°	294.5	15.7
60°-70°	231.9	12.4
70°-80°	143.1	7.6
80°-90°	37.2	2.0
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°	519.7	27.7
0°-40°	840.0	44.8
0°-60°	1460.9	78.0
0°-90°	1873.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1873.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	683	683	683	683	683	
5°	679	680	679	678	677	64
15°	645	648	650	653	655	182
25°	579	583	589	599	604	267
35°	492	498	510	526	535	308
45°	394	400	420	445	459	304
55°	291	300	328	358	372	259
65°	189	202	235	264	280	187
75°	96	112	141	157	163	103
85°	23	30	33	32	30	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	682.8	682.8	682.8	682.8	682.8
2.5°	683.7	683.7	681.9	680.1	677.4
5°	679.2	680.1	679.2	678.3	677.4
7.5°	673.8	674.7	674.7	674.7	674.7
10°	667.5	668.4	668.4	668.4	668.4
12.5°	658.5	659.4	660.3	661.2	663.0
15°	645.0	647.7	649.5	653.1	654.9
17.5°	631.5	634.2	636.9	641.4	645.0
20°	616.2	618.0	622.5	627.9	631.5
22.5°	599.2	601.9	606.4	613.5	618.9
25°	579.4	583.0	589.3	599.2	603.7
27.5°	560.5	563.2	571.3	582.1	588.4
30°	538.0	541.6	551.5	565.0	571.3
32.5°	515.5	520.0	530.8	546.1	553.3
35°	492.1	497.5	510.1	526.3	535.3
37.5°	468.7	474.1	488.5	506.5	516.4
40°	444.4	449.8	466.0	485.8	496.6
42.5°	419.2	425.5	443.5	466.0	478.6
45°	394.0	400.3	420.1	445.3	458.8
47.5°	367.9	375.1	396.7	424.6	438.1
50°	341.9	350.0	374.2	403.0	416.5
52.5°	315.8	324.8	350.9	380.5	394.9
55°	290.6	300.5	328.4	358.1	371.5
57.5°	263.6	275.3	305.0	333.8	349.1
60°	238.4	251.0	281.6	310.4	326.6
62.5°	213.2	226.7	259.1	287.9	303.2
65°	188.9	202.4	234.8	264.5	279.8
67.5°	164.6	179.9	211.4	241.1	256.4
70°	141.2	157.4	188.0	216.8	232.1
72.5°	118.8	134.9	165.5	192.5	201.5
75°	96.3	112.5	141.2	157.4	162.8
77.5°	75.6	90.9	116.1	125.9	133.1
80°	56.7	70.2	88.2	94.5	95.4
82.5°	38.7	50.4	61.2	62.1	61.2
85°	23.4	29.7	33.3	31.5	29.7
87.5°	10.8	11.7	10.8	7.2	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)