

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: P259239

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259239
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25706)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-20-UNV-L93050-W2A1-U-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1836.0 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

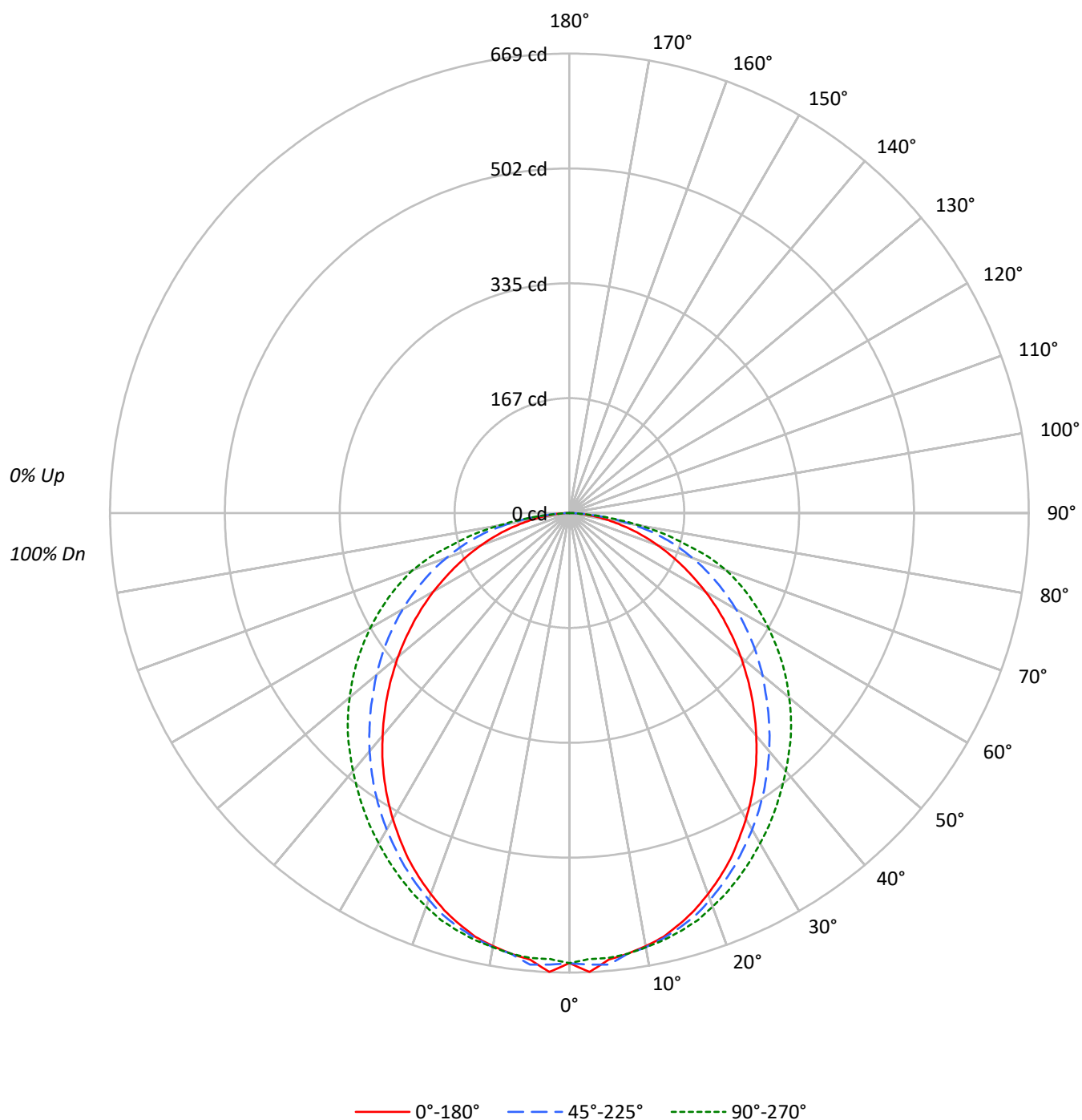
Input Watts (W): 15.826089
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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	108	104	99	95	106	101	97	94		97	94	91		93	90	88		89	87	85
2	98	90	83	77	96	88	82	76		84	79	74		81	77	73		78	74	71
3	90	79	70	64	87	77	69	63		74	68	62		71	66	61		69	64	60
4	82	70	61	54	80	68	60	54		66	59	53		64	57	52		61	56	51
5	75	62	53	46	73	61	53	46		59	51	46		57	50	45		55	49	45
6	70	56	47	41	68	55	47	40		53	46	40		52	45	40		50	44	39
7	65	51	42	36	63	50	42	36		48	41	35		47	40	35		46	40	35
8	60	46	38	32	58	46	38	32		44	37	32		43	36	31		42	36	31
9	56	43	34	29	55	42	34	29		41	34	29		40	33	28		39	33	28
10	53	39	31	26	51	39	31	26		38	31	26		37	30	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1763	1763	1763
5°	1763	1782	1756
10°	1749	1754	1754
15°	1726	1739	1753
20°	1690	1716	1746
25°	1649	1686	1736
30°	1598	1653	1725
35°	1546	1622	1722
40°	1487	1590	1722
45°	1427	1560	1736
50°	1364	1536	1749
55°	1299	1521	1772
60°	1230	1509	1802
65°	1154	1501	1848
70°	1075	1496	1910
75°	974	1494	1810
80°	845	1384	1605
85°	716	1047	1019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.2	3.4
10°-20°	176.1	9.6
20°-30°	261.9	14.3
30°-40°	309.8	16.9
40°-50°	318.4	17.3
50°-60°	290.9	15.8
60°-70°	232.7	12.7
70°-80°	146.1	8.0
80°-90°	38.0	2.1
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°	500.1	27.2
0°-40°	809.9	44.1
0°-60°	1419.2	77.3
0°-90°	1836.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1836.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	655	655	655	655	655	
5°	653	653	660	655	650	62
15°	620	620	624	628	629	175
25°	555	559	568	578	585	255
35°	470	477	494	512	524	294
45°	375	385	410	440	456	289
55°	277	290	324	360	378	248
65°	181	197	236	271	290	180
75°	94	112	144	165	174	100
85°	23	30	34	33	33	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	655.3	655.3	655.3	655.3	655.3
2.5°	668.7	666.0	658.0	652.7	650.0
5°	652.7	652.7	659.8	655.3	650.0
7.5°	647.3	647.3	647.3	660.7	647.3
10°	640.2	641.0	641.9	647.3	641.9
12.5°	632.1	632.1	633.9	635.7	636.6
15°	619.6	620.5	624.1	627.7	629.4
17.5°	606.2	608.9	613.4	617.8	621.4
20°	590.2	593.7	599.1	606.2	609.8
22.5°	573.2	576.8	583.9	591.9	598.2
25°	555.3	558.9	567.8	577.7	584.8
27.5°	534.8	539.3	550.0	563.4	570.5
30°	514.3	519.6	532.1	547.3	555.3
32.5°	492.8	499.1	513.4	530.3	540.2
35°	470.5	476.8	493.7	512.5	524.1
37.5°	447.3	454.4	473.2	494.6	507.1
40°	423.2	431.2	452.7	475.9	490.2
42.5°	399.1	408.0	431.2	458.9	473.2
45°	375.0	384.8	409.8	440.2	456.2
47.5°	350.0	361.6	387.5	421.4	437.5
50°	325.9	337.5	366.9	401.8	417.8
52.5°	300.9	314.3	345.5	381.2	398.2
55°	276.8	290.2	324.1	359.8	377.7
57.5°	252.7	266.1	301.8	338.4	356.2
60°	228.6	242.8	280.3	316.1	334.8
62.5°	204.5	219.6	258.0	294.6	312.5
65°	181.2	197.3	235.7	271.4	290.2
67.5°	158.9	175.9	213.4	248.2	267.0
70°	136.6	153.6	190.2	224.1	242.8
72.5°	115.2	132.1	167.9	198.2	212.5
75°	93.7	111.6	143.7	165.2	174.1
77.5°	73.2	91.1	118.7	133.0	142.9
80°	54.5	69.6	89.3	100.0	103.6
82.5°	37.5	50.0	62.5	65.2	67.0
85°	23.2	29.5	33.9	33.0	33.0
87.5°	10.7	11.6	9.8	7.1	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)