

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: P259491

Luminaire Tested: **22CZ-LD5-20-S-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259491
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-L92765-W2A1-U-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1795.0 lumens
Efficiency: N/A
Efficacy: 117.0 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

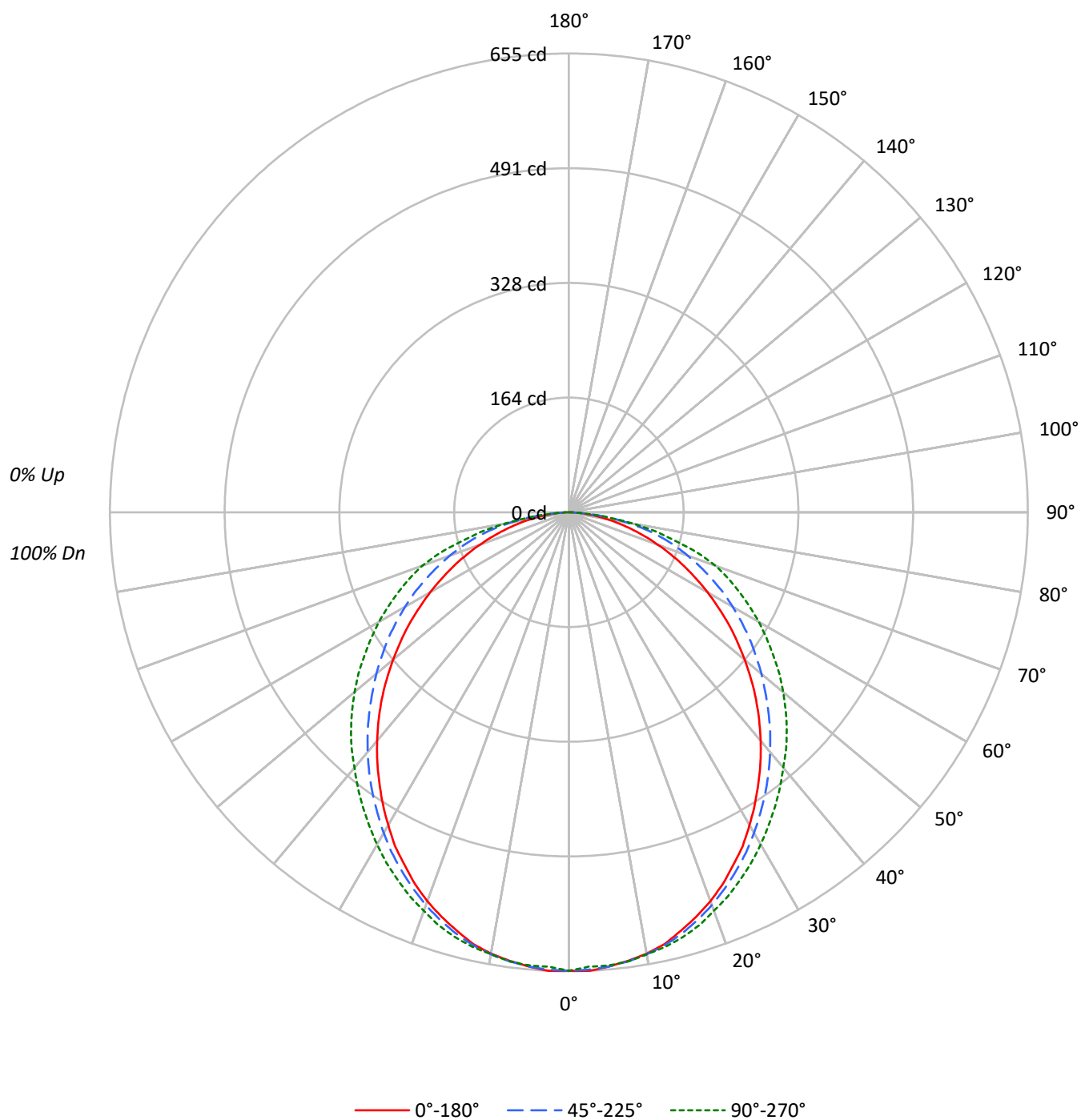
Input Watts (W): 15.345
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83		
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69		
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60	58		
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	38		
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33		
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30		
9	56	43	35	29	55	42	34	29	41	34	29	40	34	29	39	33	29	27		
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1761	1761	1761
5°	1758	1758	1754
10°	1748	1750	1750
15°	1722	1734	1749
20°	1691	1708	1733
25°	1648	1677	1718
30°	1602	1642	1701
35°	1549	1606	1685
40°	1496	1569	1672
45°	1437	1532	1673
50°	1371	1502	1671
55°	1307	1476	1671
60°	1230	1453	1685
65°	1153	1433	1707
70°	1065	1418	1750
75°	960	1408	1623
80°	841	1309	1416
85°	692	985	880



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.8	3.4
10°-20°	175.5	9.8
20°-30°	260.7	14.5
30°-40°	306.9	17.1
40°-50°	312.9	17.4
50°-60°	282.2	15.7
60°-70°	222.3	12.4
70°-80°	137.1	7.6
80°-90°	35.6	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°	498.1	27.7
0°-40°	805.0	44.8
0°-60°	1400.0	78.0
0°-90°	1795.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1795.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	654	654	654	654	654	
5°	651	652	651	650	649	62
15°	618	621	622	626	628	174
25°	555	559	565	574	578	256
35°	472	477	489	504	513	295
45°	378	384	403	427	440	291
55°	278	288	315	343	356	249
65°	181	194	225	254	268	179
75°	92	108	135	151	156	98
85°	22	28	32	30	28	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	654.4	654.4	654.4	654.4	654.4
2.5°	655.2	655.2	653.5	651.8	649.2
5°	650.9	651.8	650.9	650.1	649.2
7.5°	645.8	646.6	646.6	646.6	646.6
10°	639.7	640.6	640.6	640.6	640.6
12.5°	631.1	632.0	632.8	633.7	635.4
15°	618.2	620.8	622.5	625.9	627.7
17.5°	605.2	607.8	610.4	614.7	618.2
20°	590.6	592.3	596.6	601.8	605.2
22.5°	574.2	576.8	581.1	588.0	593.2
25°	555.2	558.7	564.7	574.2	578.5
27.5°	537.1	539.7	547.5	557.8	563.9
30°	515.6	519.0	528.5	541.4	547.5
32.5°	494.0	498.3	508.7	523.3	530.2
35°	471.6	476.8	488.8	504.4	513.0
37.5°	449.2	454.4	468.2	485.4	494.9
40°	425.9	431.1	446.6	465.6	475.9
42.5°	401.8	407.8	425.0	446.6	458.7
45°	377.6	383.7	402.6	426.8	439.7
47.5°	352.6	359.5	380.2	406.9	419.9
50°	327.6	335.4	358.7	386.3	399.2
52.5°	302.6	311.2	336.2	364.7	378.5
55°	278.5	288.0	314.7	343.1	356.1
57.5°	252.6	263.8	292.3	319.9	334.5
60°	228.5	240.5	269.9	297.4	313.0
62.5°	204.3	217.3	248.3	275.9	290.5
65°	181.1	194.0	225.0	253.5	268.1
67.5°	157.8	172.4	202.6	231.1	245.7
70°	135.4	150.9	180.2	207.8	222.4
72.5°	113.8	129.3	158.6	184.5	193.1
75°	92.3	107.8	135.4	150.9	156.1
77.5°	72.4	87.1	111.2	120.7	127.6
80°	54.3	67.2	84.5	90.5	91.4
82.5°	37.1	48.3	58.6	59.5	58.6
85°	22.4	28.5	31.9	30.2	28.5
87.5°	10.3	11.2	10.3	6.9	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)