

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: P259323

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259323
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-L92765-W2A1-U-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1760.0 lumens
Efficiency: N/A
Efficacy: 114.7 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

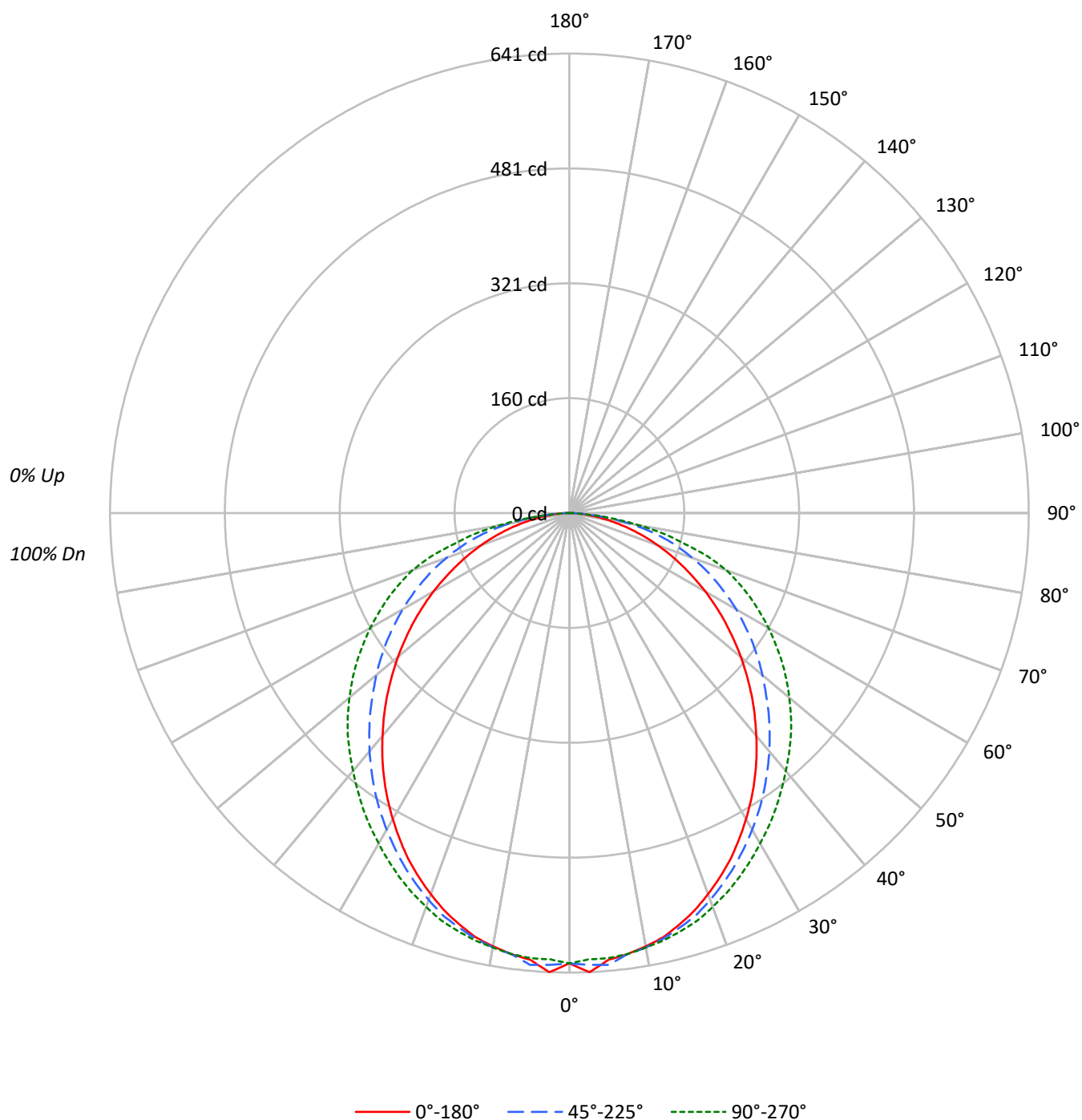
Input Watts (W): 15.345
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	1690	1690	1690
5°	1690	1709	1683
10°	1677	1682	1682
15°	1655	1667	1681
20°	1620	1645	1674
25°	1580	1616	1665
30°	1532	1585	1654
35°	1482	1555	1650
40°	1425	1524	1651
45°	1368	1495	1664
50°	1308	1473	1677
55°	1245	1458	1698
60°	1179	1446	1727
65°	1106	1438	1771
70°	1030	1434	1832
75°	935	1433	1735
80°	809	1327	1539
85°	689	1003	979



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.6	3.4
10°-20°	168.8	9.6
20°-30°	251.1	14.3
30°-40°	296.9	16.9
40°-50°	305.2	17.3
50°-60°	278.9	15.8
60°-70°	223.1	12.7
70°-80°	140.0	8.0
80°-90°	36.5	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°	479.4	27.2
0°-40°	776.3	44.1
0°-60°	1360.4	77.3
0°-90°	1760.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1760.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	628	628	628	628	628	
5°	626	626	632	628	623	59
15°	594	595	598	602	603	167
25°	532	536	544	554	561	245
35°	451	457	473	491	502	282
45°	360	369	393	422	437	277
55°	265	278	311	345	362	237
65°	174	189	226	260	278	172
75°	90	107	138	158	167	95
85°	22	28	32	32	32	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	628.2	628.2	628.2	628.2	628.2
2.5°	641.0	638.5	630.8	625.6	623.1
5°	625.6	625.6	632.5	628.2	623.1
7.5°	620.5	620.5	620.5	633.3	620.5
10°	613.7	614.5	615.4	620.5	615.4
12.5°	606.0	606.0	607.7	609.4	610.2
15°	594.0	594.8	598.2	601.7	603.4
17.5°	581.1	583.7	588.0	592.3	595.7
20°	565.7	569.1	574.3	581.1	584.6
22.5°	549.5	552.9	559.7	567.4	573.4
25°	532.3	535.8	544.3	553.7	560.6
27.5°	512.7	516.9	527.2	540.0	546.9
30°	493.0	498.1	510.1	524.6	532.3
32.5°	472.4	478.4	492.1	508.4	517.8
35°	451.0	457.0	473.3	491.3	502.4
37.5°	428.8	435.6	453.6	474.1	486.1
40°	405.7	413.4	433.9	456.2	469.9
42.5°	382.6	391.1	413.4	439.9	453.6
45°	359.5	368.9	392.8	421.9	437.3
47.5°	335.5	346.6	371.4	404.0	419.4
50°	312.4	323.5	351.8	385.1	400.5
52.5°	288.4	301.3	331.2	365.5	381.7
55°	265.3	278.2	310.7	344.9	362.0
57.5°	242.2	255.0	289.3	324.4	341.5
60°	219.1	232.8	268.7	303.0	320.9
62.5°	196.0	210.5	247.3	282.4	299.6
65°	173.7	189.1	225.9	260.2	278.2
67.5°	152.3	168.6	204.6	237.9	255.9
70°	130.9	147.2	182.3	214.8	232.8
72.5°	110.4	126.7	160.9	190.0	203.7
75°	89.9	107.0	137.8	158.3	166.9
77.5°	70.2	87.3	113.8	127.5	136.9
80°	52.2	66.8	85.6	95.9	99.3
82.5°	35.9	47.9	59.9	62.5	64.2
85°	22.3	28.2	32.5	31.7	31.7
87.5°	10.3	11.1	9.4	6.8	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)