

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: P260450

Luminaire Tested: **22CZ-LD5-20-RDP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260450
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25714)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-20-RDP-UNV-L82765-W2A1-U-5500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1655.0 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

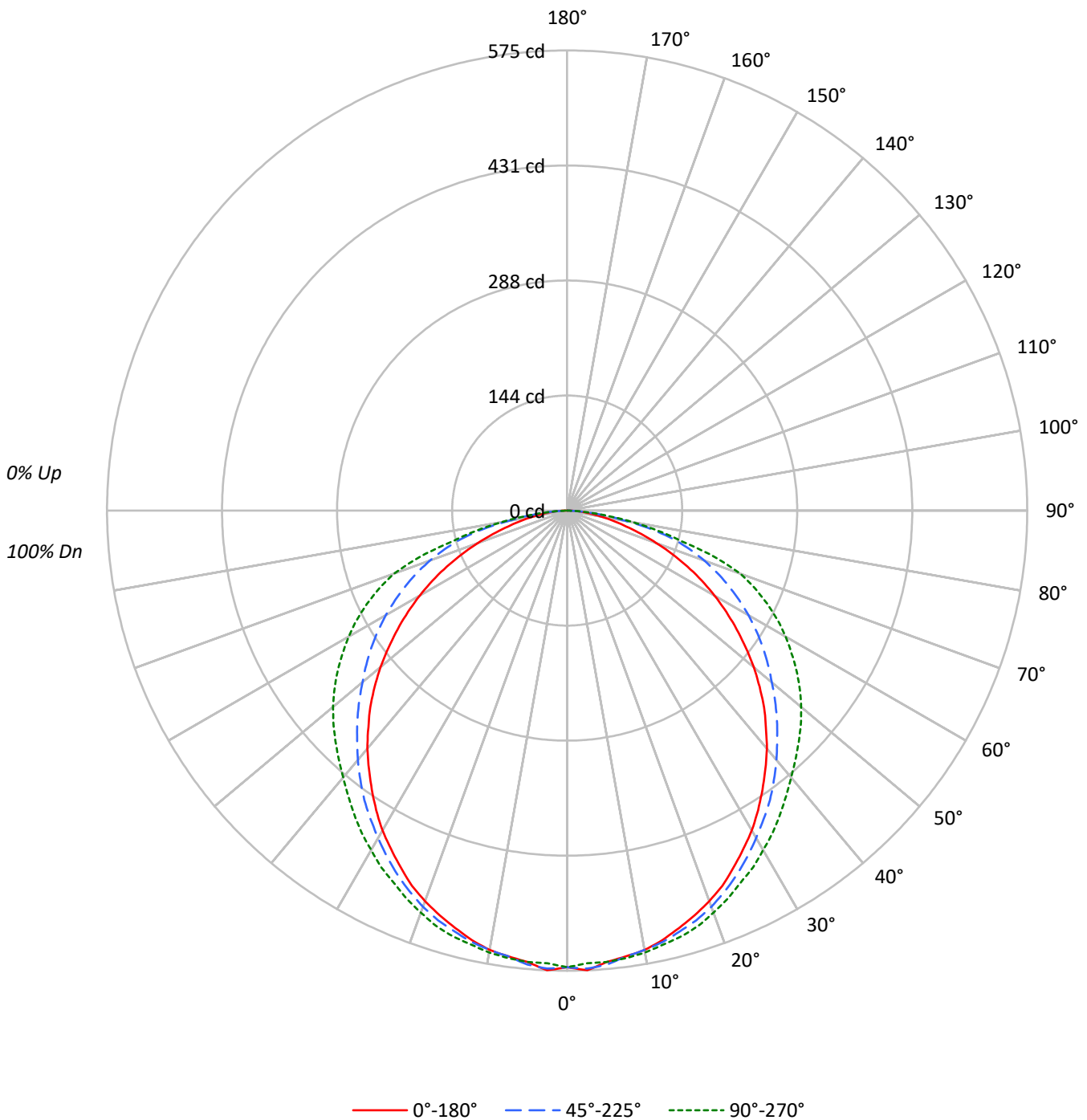
Input Watts (W): 15.996
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1535	1535	1535
5°	1529	1538	1529
10°	1523	1523	1532
15°	1504	1517	1535
20°	1487	1509	1531
25°	1461	1490	1523
30°	1434	1468	1522
35°	1398	1451	1523
40°	1364	1429	1529
45°	1324	1412	1557
50°	1274	1397	1598
55°	1213	1402	1643
60°	1145	1409	1697
65°	1056	1417	1757
70°	935	1434	1811
75°	794	1430	1543
80°	659	1150	1285
85°	571	775	741



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.9	3.3
10°-20°	153.8	9.3
20°-30°	231.3	14.0
30°-40°	277.2	16.8
40°-50°	289.1	17.5
50°-60°	269.2	16.3
60°-70°	218.6	13.2
70°-80°	131.7	8.0
80°-90°	30.2	1.8
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°	439.0	26.5
0°-40°	716.2	43.3
0°-60°	1274.5	77.0
0°-90°	1655.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1655.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	571	571	571	571	571	
5°	566	566	570	571	566	54
15°	540	542	544	548	551	152
25°	492	495	502	508	513	227
35°	426	431	442	455	464	266
45°	348	355	371	395	409	268
55°	259	270	299	332	350	231
65°	166	183	223	258	276	164
75°	76	102	138	146	148	83
85°	18	23	25	24	24	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	570.6	570.6	570.6	570.6	570.6
2.5°	574.9	573.9	572.8	569.5	566.2
5°	566.2	566.2	569.5	570.6	566.2
7.5°	561.9	561.9	561.9	566.2	564.0
10°	557.5	557.5	557.5	560.8	560.8
12.5°	549.9	550.9	552.0	553.1	555.3
15°	540.0	542.2	544.4	547.7	550.9
17.5°	530.2	532.4	536.8	540.0	544.4
20°	519.3	521.5	526.9	530.2	534.6
22.5°	507.3	508.4	514.9	519.3	524.8
25°	492.0	495.3	501.9	508.4	512.8
27.5°	476.8	480.0	487.7	496.4	502.9
30°	461.5	464.8	472.4	483.3	489.8
32.5°	444.0	448.4	457.1	470.2	477.8
35°	425.5	430.9	441.8	454.9	463.7
37.5°	406.9	412.4	424.4	440.8	449.5
40°	388.4	393.8	406.9	424.4	435.3
42.5°	367.7	374.2	388.4	409.1	422.2
45°	348.0	354.6	370.9	394.9	409.1
47.5°	326.2	333.8	352.4	379.7	396.0
50°	304.4	313.1	333.8	364.4	381.8
52.5°	281.5	291.3	316.4	348.0	366.6
55°	258.6	269.5	298.9	331.7	350.2
57.5°	235.7	247.7	280.4	314.2	332.7
60°	212.7	225.8	261.8	296.7	315.3
62.5°	189.8	204.0	242.2	277.1	296.7
65°	165.8	183.3	222.6	257.5	276.0
67.5°	141.8	162.6	202.9	236.7	254.2
70°	118.9	141.8	182.2	213.8	230.2
72.5°	97.1	121.1	160.4	187.6	194.2
75°	76.4	101.5	137.5	146.2	148.4
77.5°	58.9	81.8	109.1	111.3	116.7
80°	42.5	62.2	74.2	80.7	82.9
82.5°	29.5	42.5	49.1	50.2	51.3
85°	18.5	22.9	25.1	24.0	24.0
87.5°	9.8	8.7	7.6	5.5	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)