

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: P260451

Luminaire Tested: **22CZ-LD5-20-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260451
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-5700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1660.0 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

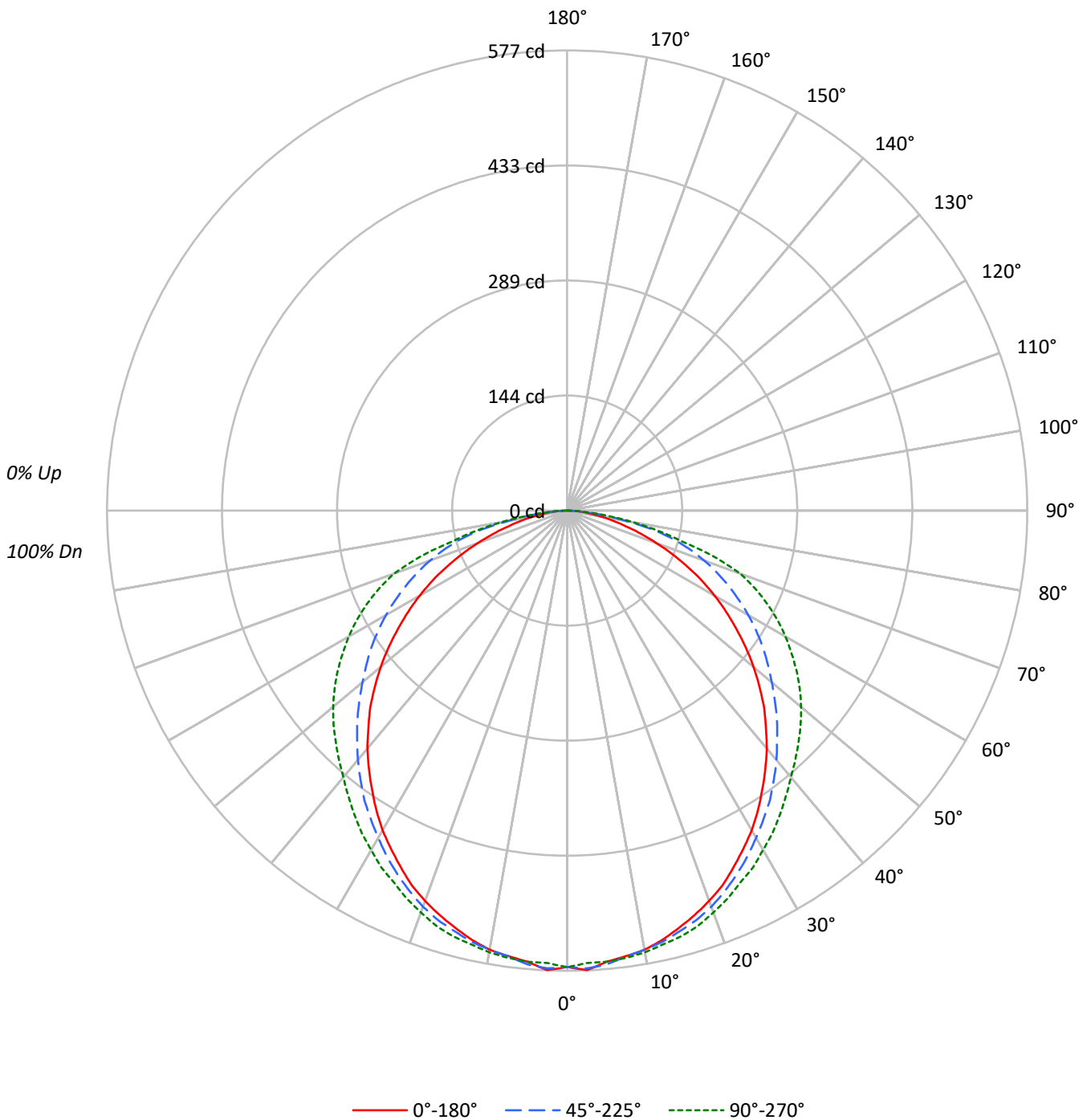
Input Watts (W): 15.996
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1540	1540	1540
5°	1534	1543	1534
10°	1528	1528	1537
15°	1509	1521	1539
20°	1492	1513	1536
25°	1465	1495	1527
30°	1438	1472	1527
35°	1402	1456	1528
40°	1369	1434	1534
45°	1329	1416	1562
50°	1278	1402	1603
55°	1217	1407	1648
60°	1149	1413	1702
65°	1059	1421	1763
70°	939	1437	1817
75°	796	1434	1547
80°	662	1153	1289
85°	574	778	744



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.1	3.3
10°-20°	154.2	9.3
20°-30°	232.0	14.0
30°-40°	278.1	16.8
40°-50°	290.0	17.5
50°-60°	270.0	16.3
60°-70°	219.2	13.2
70°-80°	132.1	8.0
80°-90°	30.3	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°	440.3	26.5
0°-40°	718.4	43.3
0°-60°	1278.4	77.0
0°-90°	1660.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1660.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	572	572	572	572	572	
5°	568	568	571	572	568	54
15°	542	544	546	549	553	153
25°	494	497	503	510	514	227
35°	427	432	443	456	465	267
45°	349	356	372	396	410	269
55°	259	270	300	333	351	232
65°	166	184	223	258	277	165
75°	77	102	138	147	149	83
85°	19	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°	572.3	572.3	572.3	572.3	572.3
2.5°	576.7	575.6	574.5	571.2	567.9
5°	567.9	567.9	571.2	572.3	567.9
7.5°	563.6	563.6	563.6	567.9	565.7
10°	559.2	559.2	559.2	562.5	562.5
12.5°	551.5	552.6	553.7	554.8	557.0
15°	541.7	543.9	546.0	549.3	552.6
17.5°	531.8	534.0	538.4	541.7	546.0
20°	520.9	523.1	528.5	531.8	536.2
22.5°	508.8	509.9	516.5	520.9	526.3
25°	493.5	496.8	503.4	509.9	514.3
27.5°	478.2	481.5	489.1	497.9	504.5
30°	462.9	466.2	473.8	484.8	491.3
32.5°	445.4	449.7	458.5	471.6	479.3
35°	426.8	432.2	443.2	456.3	465.1
37.5°	408.2	413.6	425.7	442.1	450.8
40°	389.6	395.0	408.2	425.7	436.6
42.5°	368.8	375.3	389.6	410.4	423.5
45°	349.1	355.6	372.1	396.1	410.4
47.5°	327.2	334.8	353.5	380.8	397.2
50°	305.3	314.1	334.8	365.5	383.0
52.5°	282.3	292.2	317.3	349.1	367.7
55°	259.3	270.3	299.8	332.7	351.3
57.5°	236.4	248.4	281.2	315.2	333.8
60°	213.4	226.5	262.6	297.6	316.2
62.5°	190.4	204.6	242.9	277.9	297.6
65°	166.3	183.8	223.2	258.2	276.9
67.5°	142.3	163.0	203.5	237.5	255.0
70°	119.3	142.3	182.7	214.5	230.9
72.5°	97.4	121.5	160.9	188.2	194.8
75°	76.6	101.8	137.9	146.6	148.8
77.5°	59.1	82.1	109.4	111.6	117.1
80°	42.7	62.4	74.4	81.0	83.2
82.5°	29.5	42.7	49.2	50.3	51.4
85°	18.6	23.0	25.2	24.1	24.1
87.5°	9.8	8.8	7.7	5.5	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)