

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: P259318

Luminaire Tested: **22CZ-LD5-44-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259318
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-LD5-44-UNV-L82765-W2A1-U-5000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4549.0 lumens
Efficiency: N/A
Efficacy: 128.4 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

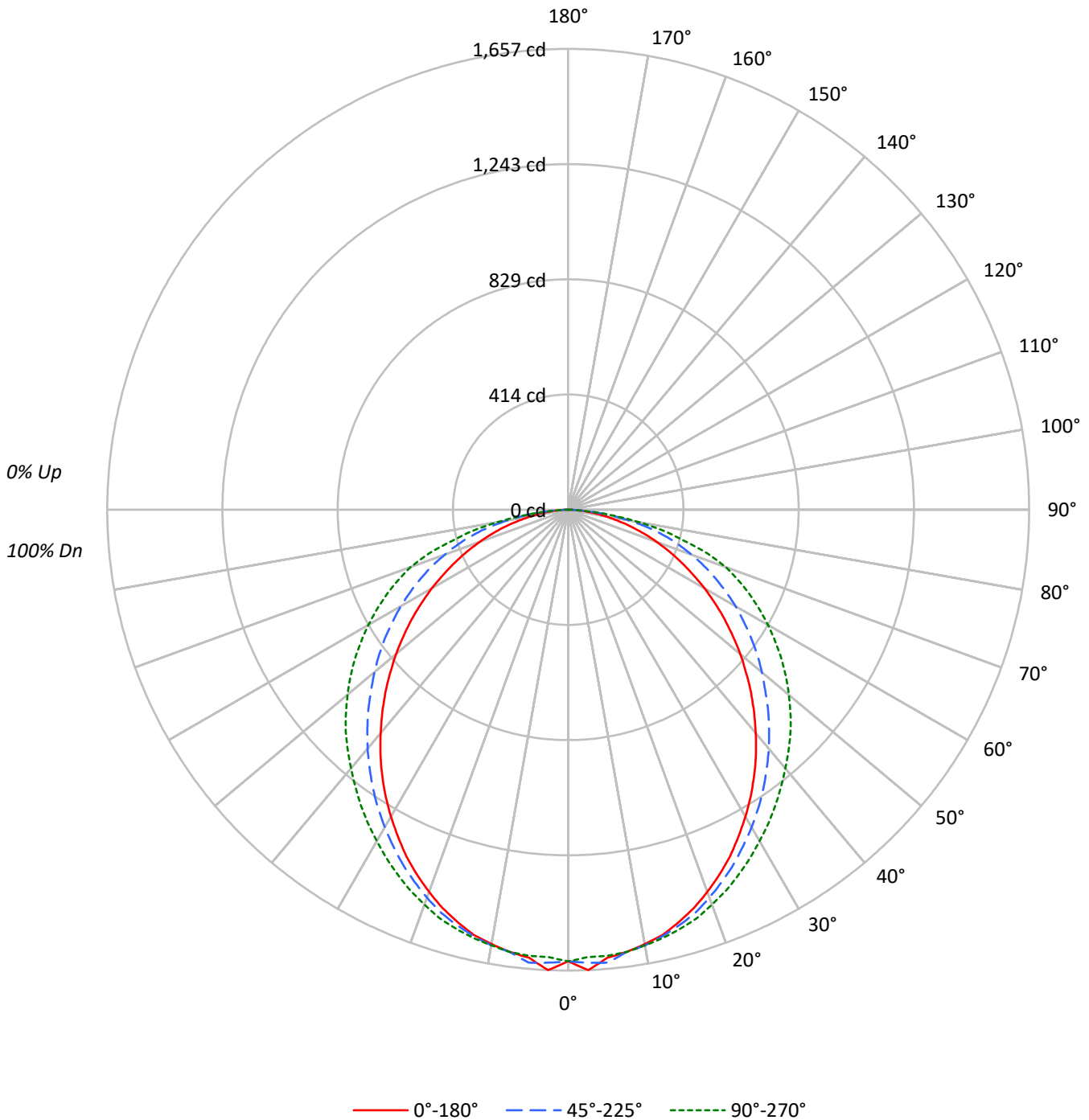
Input Watts (W): 35.433
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P259318

CATALOG NUMBER: 22CZ-LD5-44-UNV-L82765-W2A1-U-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P259318

CATALOG NUMBER: 22CZ-LD5-44-UNV-L82765-W2A1-U-5000K

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	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4369	4369	4369
5°	4368	4416	4350
10°	4334	4346	4346
15°	4277	4308	4345
20°	4187	4251	4327
25°	4085	4177	4302
30°	3959	4097	4275
35°	3830	4019	4266
40°	3683	3940	4266
45°	3536	3864	4302
50°	3380	3806	4334
55°	3217	3767	4390
60°	3048	3738	4464
65°	2860	3719	4578
70°	2663	3707	4734
75°	2415	3703	4485
80°	2091	3428	3976
85°	1775	2597	2526



TEST NUMBER: P259318

CATALOG NUMBER: 22CZ-LD5-44-UNV-L82765-W2A1-U-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.0	3.4
10°-20°	436.2	9.6
20°-30°	648.9	14.3
30°-40°	767.5	16.9
40°-50°	788.8	17.3
50°-60°	720.8	15.8
60°-70°	576.6	12.7
70°-80°	361.9	8.0
80°-90°	94.2	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°	1239.1	27.2
0°-40°	2006.6	44.1
0°-60°	3516.3	77.3
0°-90°	4549.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4549.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1624	1624	1624	1624	1624	
5°	1617	1617	1635	1624	1610	154
15°	1535	1537	1546	1555	1560	432
25°	1376	1385	1407	1431	1449	633
35°	1166	1181	1223	1270	1298	729
45°	929	953	1015	1091	1130	716
55°	686	719	803	892	936	613
65°	449	489	584	672	719	446
75°	232	276	356	409	431	247
85°	58	73	84	82	82	66
90°	0	0	0	0	0	



TEST NUMBER: P259318

CATALOG NUMBER: 22CZ-LD5-44-UNV-L82765-W2A1-U-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1623.7	1623.7	1623.7	1623.7	1623.7
2.5°	1656.9	1650.2	1630.3	1617.1	1610.4
5°	1617.1	1617.1	1634.8	1623.7	1610.4
7.5°	1603.8	1603.8	1603.8	1637.0	1603.8
10°	1586.1	1588.3	1590.5	1603.8	1590.5
12.5°	1566.2	1566.2	1570.6	1575.0	1577.2
15°	1535.2	1537.4	1546.3	1555.1	1559.5
17.5°	1502.0	1508.7	1519.7	1530.8	1539.6
20°	1462.2	1471.1	1484.3	1502.0	1510.9
22.5°	1420.2	1429.0	1446.7	1466.6	1482.1
25°	1375.9	1384.8	1406.9	1431.2	1448.9
27.5°	1325.1	1336.1	1362.7	1395.8	1413.5
30°	1274.2	1287.5	1318.4	1356.0	1375.9
32.5°	1221.1	1236.6	1272.0	1314.0	1338.3
35°	1165.8	1181.3	1223.3	1269.8	1298.5
37.5°	1108.3	1126.0	1172.4	1225.5	1256.5
40°	1048.5	1068.5	1121.5	1179.1	1214.5
42.5°	988.8	1010.9	1068.5	1137.0	1172.4
45°	929.1	953.4	1015.4	1090.6	1130.4
47.5°	867.1	895.9	960.1	1044.1	1083.9
50°	807.4	836.2	909.2	995.5	1035.3
52.5°	745.5	778.7	856.1	944.6	986.6
55°	685.8	718.9	803.0	891.5	935.7
57.5°	626.0	659.2	747.7	838.4	882.6
60°	566.3	601.7	694.6	783.1	829.5
62.5°	506.6	544.2	639.3	730.0	774.2
65°	449.1	488.9	584.0	672.5	718.9
67.5°	393.8	435.8	528.7	615.0	661.4
70°	338.5	380.5	471.2	555.2	601.7
72.5°	285.4	327.4	415.9	491.1	526.5
75°	232.3	276.5	356.2	409.2	431.4
77.5°	181.4	225.6	294.2	329.6	353.9
80°	134.9	172.5	221.2	247.8	256.6
82.5°	92.9	123.9	154.8	161.5	165.9
85°	57.5	73.0	84.1	81.8	81.8
87.5°	26.5	28.8	24.3	17.7	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)