

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: P259372

Luminaire Tested: **22CZ-LD5-44-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259372
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-L92765-W2A1-U-5000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4084.0 lumens
Efficiency: N/A
Efficacy: 115.3 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

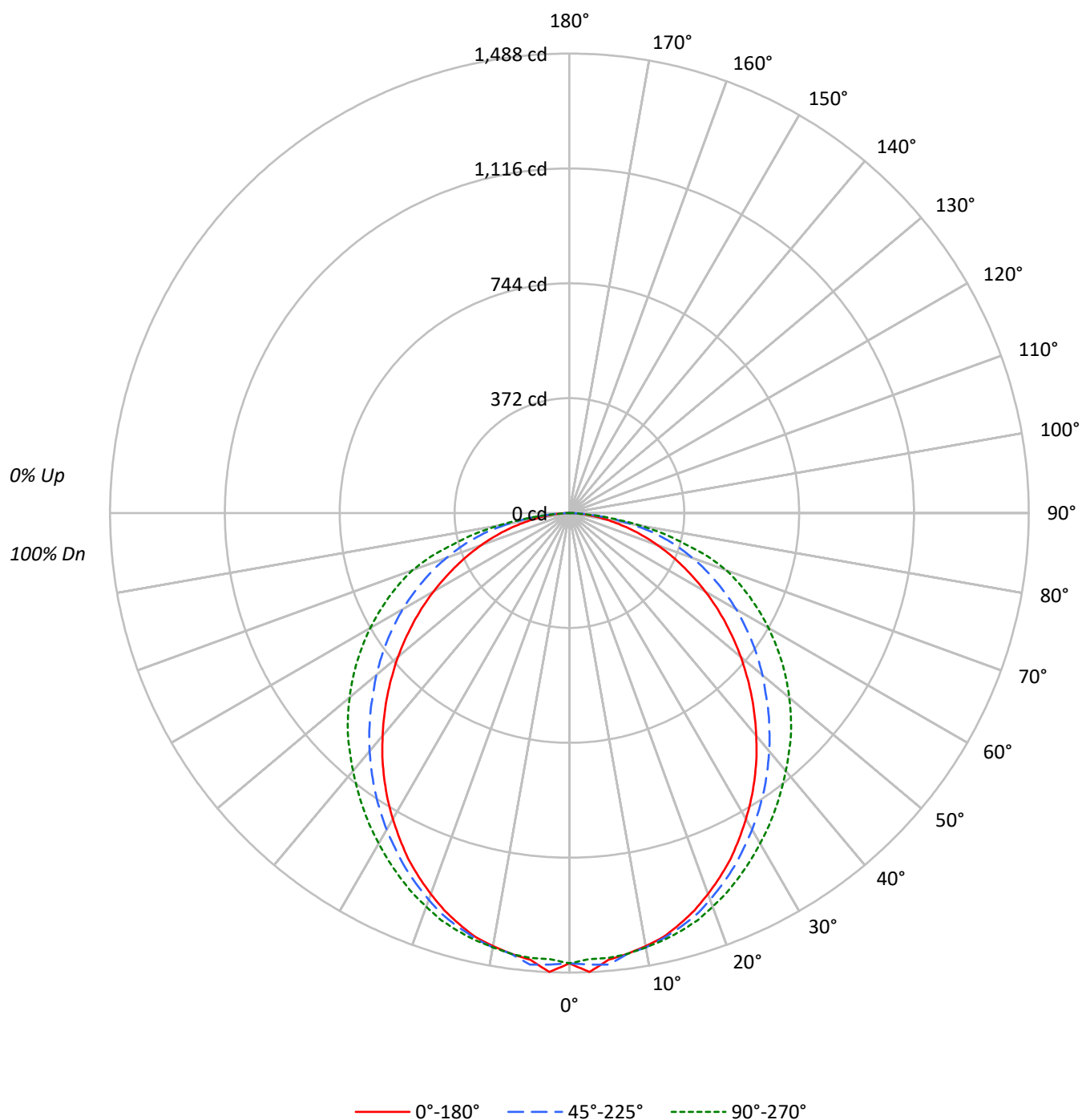
Input Watts (W): 35.433
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P259372

CATALOG NUMBER: 22CZ-LD5-44-UNV-L92765-W2A1-U-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P259372

CATALOG NUMBER: 22CZ-LD5-44-UNV-L92765-W2A1-U-5000K

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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	108	104	99	95	106	101	97	94	97	94	91		93	90	88		83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		69
3	90	79	70	64	87	77	69	63	74	68	62		71	66	61		58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		37
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		33
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		29
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3923	3923	3923
5°	3922	3964	3905
10°	3891	3902	3902
15°	3840	3867	3901
20°	3759	3816	3884
25°	3668	3750	3862
30°	3554	3678	3838
35°	3438	3608	3830
40°	3307	3537	3830
45°	3174	3469	3862
50°	3035	3417	3891
55°	2889	3382	3941
60°	2736	3356	4008
65°	2567	3338	4110
70°	2391	3328	4250
75°	2168	3324	4027
80°	1877	3078	3570
85°	1593	2331	2269



TEST NUMBER: P259372

CATALOG NUMBER: 22CZ-LD5-44-UNV-L92765-W2A1-U-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.3	3.4
10°-20°	391.6	9.6
20°-30°	582.6	14.3
30°-40°	689.0	16.9
40°-50°	708.2	17.3
50°-60°	647.1	15.8
60°-70°	517.7	12.7
70°-80°	324.9	8.0
80°-90°	84.6	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°	1112.5	27.2
0°-40°	1801.5	44.1
0°-60°	3156.8	77.3
0°-90°	4084.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4084.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1458	1458	1458	1458	1458	
5°	1452	1452	1468	1458	1446	138
15°	1378	1380	1388	1396	1400	388
25°	1235	1243	1263	1285	1301	568
35°	1047	1060	1098	1140	1166	654
45°	834	856	912	979	1015	643
55°	616	645	721	800	840	551
65°	403	439	524	604	645	400
75°	208	248	320	367	387	221
85°	52	66	76	74	74	60
90°	0	0	0	0	0	



TEST NUMBER: P259372

CATALOG NUMBER: 22CZ-LD5-44-UNV-L92765-W2A1-U-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1457.7	1457.7	1457.7	1457.7	1457.7
2.5°	1487.5	1481.5	1463.7	1451.8	1445.8
5°	1451.8	1451.8	1467.6	1457.7	1445.8
7.5°	1439.8	1439.8	1439.8	1469.6	1439.8
10°	1424.0	1425.9	1427.9	1439.8	1427.9
12.5°	1406.1	1406.1	1410.1	1414.0	1416.0
15°	1378.3	1380.3	1388.2	1396.2	1400.1
17.5°	1348.5	1354.4	1364.4	1374.3	1382.2
20°	1312.7	1320.7	1332.6	1348.5	1356.4
22.5°	1275.0	1283.0	1298.8	1316.7	1330.6
25°	1235.3	1243.2	1263.1	1284.9	1300.8
27.5°	1189.6	1199.5	1223.4	1253.2	1269.0
30°	1143.9	1155.8	1183.7	1217.4	1235.3
32.5°	1096.3	1110.2	1141.9	1179.7	1201.5
35°	1046.6	1060.5	1098.3	1140.0	1165.8
37.5°	995.0	1010.9	1052.6	1100.2	1128.0
40°	941.4	959.2	1006.9	1058.5	1090.3
42.5°	887.7	907.6	959.2	1020.8	1052.6
45°	834.1	856.0	911.6	979.1	1014.8
47.5°	778.5	804.3	861.9	937.4	973.1
50°	724.9	750.7	816.2	893.7	929.4
52.5°	669.3	699.1	768.6	848.0	885.8
55°	615.7	645.4	720.9	800.4	840.1
57.5°	562.0	591.8	671.3	752.7	792.4
60°	508.4	540.2	623.6	703.0	744.7
62.5°	454.8	488.6	574.0	655.4	695.1
65°	403.2	438.9	524.3	603.7	645.4
67.5°	353.5	391.2	474.7	552.1	593.8
70°	303.9	341.6	423.0	498.5	540.2
72.5°	256.2	293.9	373.4	440.9	472.7
75°	208.5	248.2	319.7	367.4	387.3
77.5°	162.9	202.6	264.1	295.9	317.8
80°	121.1	154.9	198.6	222.4	230.4
82.5°	83.4	111.2	139.0	145.0	148.9
85°	51.6	65.5	75.5	73.5	73.5
87.5°	23.8	25.8	21.8	15.9	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)