

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: P259539

Luminaire Tested: **22CZ-LD5-44-S-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259539
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25712)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-44-S-UNV-L92765-W2A1-U-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4083.0 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

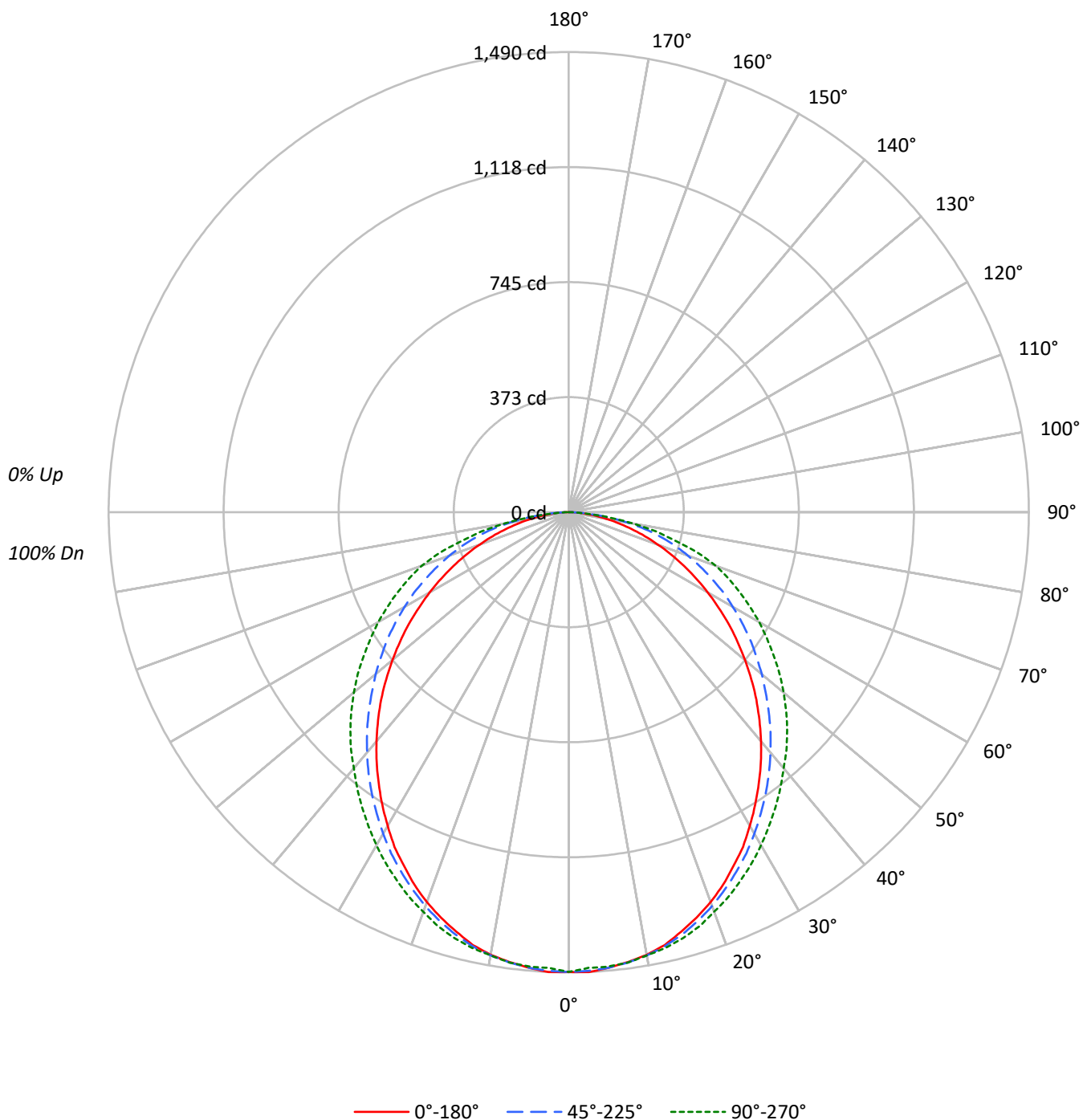
Input Watts (W): 35.247
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P259539

CATALOG NUMBER: 22CZ-LD5-44-S-UNV-L92765-W2A1-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P259539

CATALOG NUMBER: 22CZ-LD5-44-S-UNV-L92765-W2A1-U-4500K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	99	95	106	101	97	94	97	94	91		93	91	88		90
2	99	90	83	77	96	88	82	77	85	79	75		81	77	73		78
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		69
4	82	70	61	54	80	69	61	54	66	59	53		64	58	53		62
5	76	63	54	47	74	62	53	47	59	52	46		57	51	46		56
6	70	56	47	41	68	56	47	41	54	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	36		47	41	36		46
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		42
9	56	43	35	29	55	42	34	29	41	34	29		40	34	29		39
10	53	40	32	26	52	39	32	26	38	31	26		37	31	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4006	4006	4006
5°	4000	4000	3989
10°	3976	3982	3982
15°	3917	3945	3977
20°	3847	3886	3942
25°	3750	3814	3907
30°	3644	3736	3869
35°	3524	3653	3833
40°	3403	3569	3803
45°	3269	3485	3806
50°	3120	3415	3801
55°	2972	3358	3800
60°	2797	3303	3831
65°	2622	3259	3883
70°	2423	3225	3981
75°	2181	3201	3691
80°	1915	2978	3222
85°	1575	2242	1998



TEST NUMBER: P259539

CATALOG NUMBER: 22CZ-LD5-44-S-UNV-L92765-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.6	3.4
10°-20°	399.3	9.8
20°-30°	593.1	14.5
30°-40°	698.1	17.1
40°-50°	711.7	17.4
50°-60°	641.9	15.7
60°-70°	505.6	12.4
70°-80°	311.9	7.6
80°-90°	81.0	2.0
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°	1132.9	27.7
0°-40°	1831.0	44.8
0°-60°	3184.6	78.0
0°-90°	4083.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4083.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1488	1488	1488	1488	1488	
5°	1481	1483	1481	1479	1477	141
15°	1406	1412	1416	1424	1428	396
25°	1263	1271	1284	1306	1316	582
35°	1073	1084	1112	1147	1167	671
45°	859	873	916	971	1000	662
55°	633	655	716	780	810	565
65°	412	441	512	577	610	408
75°	210	245	308	343	355	224
85°	51	65	73	69	65	60
90°	0	0	0	0	0	



TEST NUMBER: P259539

CATALOG NUMBER: 22CZ-LD5-44-S-UNV-L92765-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1488.5	1488.5	1488.5	1488.5	1488.5
2.5°	1490.5	1490.5	1486.5	1482.6	1476.7
5°	1480.7	1482.6	1480.7	1478.7	1476.7
7.5°	1468.9	1470.8	1470.8	1470.8	1470.8
10°	1455.2	1457.1	1457.1	1457.1	1457.1
12.5°	1435.5	1437.5	1439.5	1441.4	1445.4
15°	1406.1	1412.0	1415.9	1423.8	1427.7
17.5°	1376.7	1382.6	1388.5	1398.3	1406.1
20°	1343.4	1347.3	1357.1	1368.9	1376.7
22.5°	1306.1	1312.0	1321.8	1337.5	1349.3
25°	1263.0	1270.8	1284.5	1306.1	1315.9
27.5°	1221.8	1227.7	1245.3	1268.8	1282.6
30°	1172.8	1180.6	1202.2	1231.6	1245.3
32.5°	1123.7	1133.5	1157.1	1190.4	1206.1
35°	1072.7	1084.5	1112.0	1147.3	1166.9
37.5°	1021.7	1033.5	1064.9	1104.1	1125.7
40°	968.8	980.6	1015.9	1059.0	1082.5
42.5°	913.9	927.6	966.8	1015.9	1043.3
45°	859.0	872.7	915.8	970.8	1000.2
47.5°	802.1	817.8	864.9	925.7	955.1
50°	745.2	762.9	815.8	878.6	908.0
52.5°	688.4	708.0	764.8	829.6	860.9
55°	633.4	655.0	715.8	780.5	809.9
57.5°	574.6	600.1	664.8	727.6	760.9
60°	519.7	547.2	613.8	676.6	711.9
62.5°	464.8	494.2	564.8	627.6	660.9
65°	411.8	441.3	511.9	576.6	609.9
67.5°	358.9	392.2	460.9	525.6	558.9
70°	307.9	343.2	409.9	472.6	506.0
72.5°	258.9	294.2	360.8	419.7	439.3
75°	209.8	245.1	307.9	343.2	355.0
77.5°	164.7	198.1	253.0	274.6	290.2
80°	123.6	153.0	192.2	205.9	207.9
82.5°	84.3	109.8	133.4	135.3	133.4
85°	51.0	64.7	72.6	68.6	64.7
87.5°	23.5	25.5	23.5	15.7	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)