

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: P230574

Luminaire Tested: **22CZ-LD5-44SE-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230574
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-LD5-44SE-UNV-L940-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH RIBBED LENS
Light Source: (56) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3860.0 lumens
Efficiency: N/A
Efficacy: 96.5 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

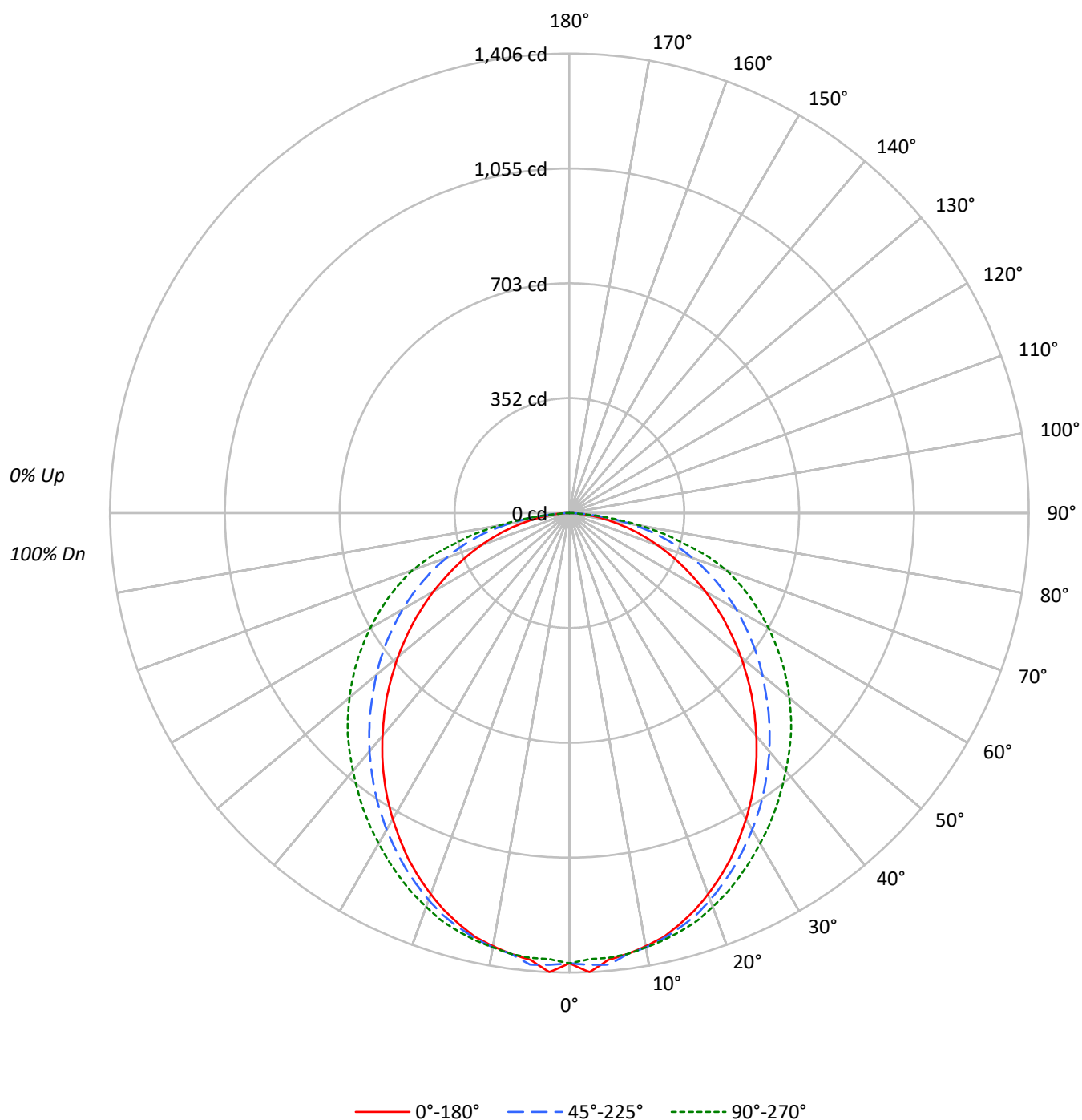
Input Watts (W): 40
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P230574

CATALOG NUMBER: 22CZ-LD5-44SE-UNV-L940-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P230574

CATALOG NUMBER: 22CZ-LD5-44SE-UNV-L940-CD1-U

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	108	104	99	95	106	101	97	94		97	94	91			93	90	88			89
2	98	90	83	77	96	88	82	76		84	79	74			81	77	73			78
3	90	79	70	64	87	77	69	63		74	68	62			71	66	61			69
4	82	70	61	54	80	68	60	54		66	59	53			64	57	52			61
5	75	62	53	46	73	61	53	46		59	51	46			57	50	45			55
6	70	56	47	41	68	55	47	40		53	46	40			52	45	40			50
7	65	51	42	36	63	50	42	36		48	41	35			47	40	35			46
8	60	46	38	32	58	46	38	32		44	37	32			43	36	31			42
9	56	43	34	29	55	42	34	29		41	34	29			40	33	28			39
10	53	39	31	26	51	39	31	26		38	31	26			37	30	26			36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3708	3708	3708
5°	3706	3747	3691
10°	3678	3688	3688
15°	3629	3655	3687
20°	3553	3607	3671
25°	3467	3545	3651
30°	3360	3476	3628
35°	3250	3410	3619
40°	3125	3343	3620
45°	3000	3279	3650
50°	2868	3230	3678
55°	2730	3197	3725
60°	2586	3172	3788
65°	2426	3155	3884
70°	2260	3146	4017
75°	2049	3142	3805
80°	1774	2909	3374
85°	1507	2201	2146



TEST NUMBER: P230574

CATALOG NUMBER: 22CZ-LD5-44SE-UNV-L940-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.7	3.4
10°-20°	370.1	9.6
20°-30°	550.6	14.3
30°-40°	651.2	16.9
40°-50°	669.4	17.3
50°-60°	611.6	15.8
60°-70°	489.3	12.7
70°-80°	307.1	8.0
80°-90°	80.0	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°	1051.5	27.2
0°-40°	1702.7	44.1
0°-60°	2983.7	77.3
0°-90°	3860.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3860.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1378	1378	1378	1378	1378	
5°	1372	1372	1387	1378	1366	130
15°	1303	1305	1312	1320	1323	367
25°	1168	1175	1194	1214	1230	537
35°	989	1002	1038	1077	1102	618
45°	788	809	862	925	959	608
55°	582	610	681	756	794	521
65°	381	415	496	571	610	378
75°	197	235	302	347	366	209
85°	49	62	71	70	70	56
90°	0	0	0	0	0	



TEST NUMBER: P230574

CATALOG NUMBER: 22CZ-LD5-44SE-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1377.8	1377.8	1377.8	1377.8	1377.8
2.5°	1405.9	1400.3	1383.4	1372.1	1366.5
5°	1372.1	1372.1	1387.1	1377.8	1366.5
7.5°	1360.9	1360.9	1360.9	1389.0	1360.9
10°	1345.9	1347.7	1349.6	1360.9	1349.6
12.5°	1329.0	1329.0	1332.7	1336.5	1338.3
15°	1302.7	1304.6	1312.1	1319.6	1323.3
17.5°	1274.5	1280.2	1289.5	1298.9	1306.4
20°	1240.7	1248.2	1259.5	1274.5	1282.0
22.5°	1205.1	1212.6	1227.6	1244.5	1257.6
25°	1167.5	1175.0	1193.8	1214.5	1229.5
27.5°	1124.4	1133.7	1156.3	1184.4	1199.4
30°	1081.2	1092.5	1118.7	1150.6	1167.5
32.5°	1036.1	1049.3	1079.3	1115.0	1135.6
35°	989.2	1002.4	1038.0	1077.4	1101.8
37.5°	940.4	955.4	994.8	1039.9	1066.2
40°	889.7	906.6	951.7	1000.5	1030.5
42.5°	839.0	857.8	906.6	964.8	994.8
45°	788.4	809.0	861.6	925.4	959.2
47.5°	735.8	760.2	814.6	886.0	919.8
50°	685.1	709.5	771.5	844.7	878.5
52.5°	632.6	660.7	726.4	801.5	837.2
55°	581.9	610.0	681.4	756.5	794.0
57.5°	531.2	559.4	634.4	711.4	748.9
60°	480.5	510.6	589.4	664.5	703.9
62.5°	429.8	461.8	542.5	619.4	657.0
65°	381.0	414.8	495.5	570.6	610.0
67.5°	334.1	369.8	448.6	521.8	561.2
70°	287.2	322.9	399.8	471.1	510.6
72.5°	242.1	277.8	352.9	416.7	446.7
75°	197.1	234.6	302.2	347.3	366.0
77.5°	153.9	191.5	249.6	279.7	300.3
80°	114.5	146.4	187.7	210.2	217.7
82.5°	78.8	105.1	131.4	137.0	140.8
85°	48.8	61.9	71.3	69.5	69.5
87.5°	22.5	24.4	20.6	15.0	9.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)