

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: P#

Luminaire Tested: **24CZ-LD5-55-SQP-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25713)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-55-SQP-UNV-L830-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3400.2 lumens
Efficiency: N/A
Efficacy: 74.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

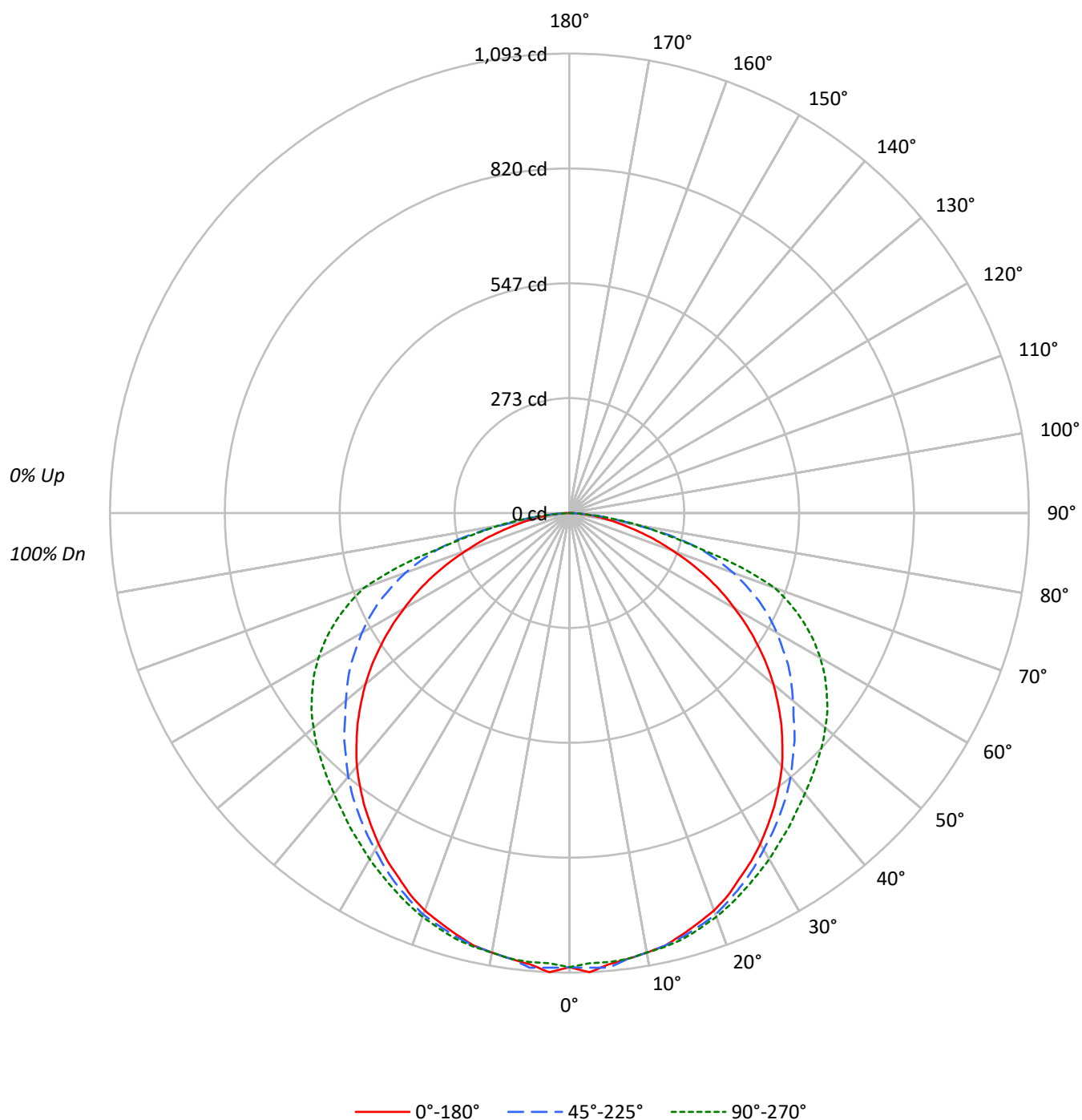
Input Watts (W): 45.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-55-SQP-UNV-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-55-SQP-UNV-L830-CD1-U

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	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1453	1453	1453
5°	1452	1459	1442
10°	1444	1437	1438
15°	1436	1432	1441
20°	1427	1428	1437
25°	1407	1412	1433
30°	1391	1393	1436
35°	1372	1384	1446
40°	1354	1377	1469
45°	1324	1369	1512
50°	1288	1367	1570
55°	1238	1388	1636
60°	1172	1406	1707
65°	1093	1426	1769
70°	962	1424	1799
75°	816	1364	1365
80°	663	928	1020
85°	508	507	467



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-55-SQP-UNV-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.5	3.0
10°-20°	294.5	8.7
20°-30°	448.8	13.2
30°-40°	549.1	16.1
40°-50°	590.8	17.4
50°-60°	572.3	16.8
60°-70°	484.8	14.3
70°-80°	293.1	8.6
80°-90°	64.4	1.9
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°	845.8	24.9
0°-40°	1394.9	41.0
0°-60°	2558.0	75.2
0°-90°	3400.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3400.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1080	1080	1080	1080	1080	
5°	1077	1077	1085	1080	1072	102
15°	1038	1040	1043	1046	1048	293
25°	959	964	974	982	988	443
35°	850	856	874	898	911	532
45°	713	726	758	805	834	550
55°	547	570	636	710	747	488
65°	362	401	499	578	615	356
75°	172	232	314	320	312	184
85°	42	50	53	50	48	48
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-55-SQP-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1080.1	1080.1	1080.1	1080.1	1080.1
2.5°	1093.2	1090.6	1082.6	1077.4	1072.1
5°	1077.4	1077.4	1085.3	1080.1	1072.1
7.5°	1069.4	1069.4	1069.4	1082.6	1069.4
10°	1061.5	1064.2	1061.5	1072.1	1061.5
12.5°	1053.6	1053.6	1053.6	1056.2	1056.2
15°	1037.8	1040.4	1043.0	1045.7	1048.3
17.5°	1021.9	1024.6	1029.8	1032.5	1035.1
20°	1006.0	1008.7	1016.6	1016.6	1021.9
22.5°	985.0	985.0	995.5	998.2	1006.0
25°	958.6	963.8	974.4	982.3	987.6
27.5°	934.8	940.0	950.7	961.2	969.1
30°	908.4	913.6	924.3	940.0	950.7
32.5°	879.3	884.6	900.4	918.9	929.5
35°	850.2	855.6	874.0	897.8	911.0
37.5°	818.6	826.5	847.6	874.0	889.9
40°	786.9	794.9	818.6	847.6	871.4
42.5°	749.9	760.5	786.9	826.5	852.9
45°	713.0	726.2	757.8	805.4	834.4
47.5°	673.4	686.6	723.5	784.2	816.0
50°	633.7	649.6	694.4	760.5	794.9
52.5°	591.5	607.3	665.5	736.7	773.7
55°	546.6	570.4	636.4	710.3	747.3
57.5°	501.7	528.1	602.0	681.2	720.9
60°	454.2	485.8	570.4	649.6	689.2
62.5°	409.3	443.6	536.1	615.2	654.8
65°	361.8	401.4	499.0	578.3	615.2
67.5°	311.6	361.8	456.9	533.4	570.4
70°	261.4	319.5	414.6	485.8	520.2
72.5°	216.5	277.3	367.1	427.8	427.8
75°	171.7	232.4	314.3	319.5	311.6
77.5°	132.0	190.1	245.6	224.5	229.7
80°	97.7	145.3	155.8	163.7	169.0
82.5°	66.0	97.7	100.3	105.6	105.6
85°	42.3	50.2	52.8	50.2	47.5
87.5°	18.5	21.1	15.9	10.5	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)