

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-LD5-50SE-RDP-UNV-L840-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-LD5-50SE-RDP-UNV-L840-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3416.1 lumens
Efficiency: N/A
Efficacy: 73.4 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

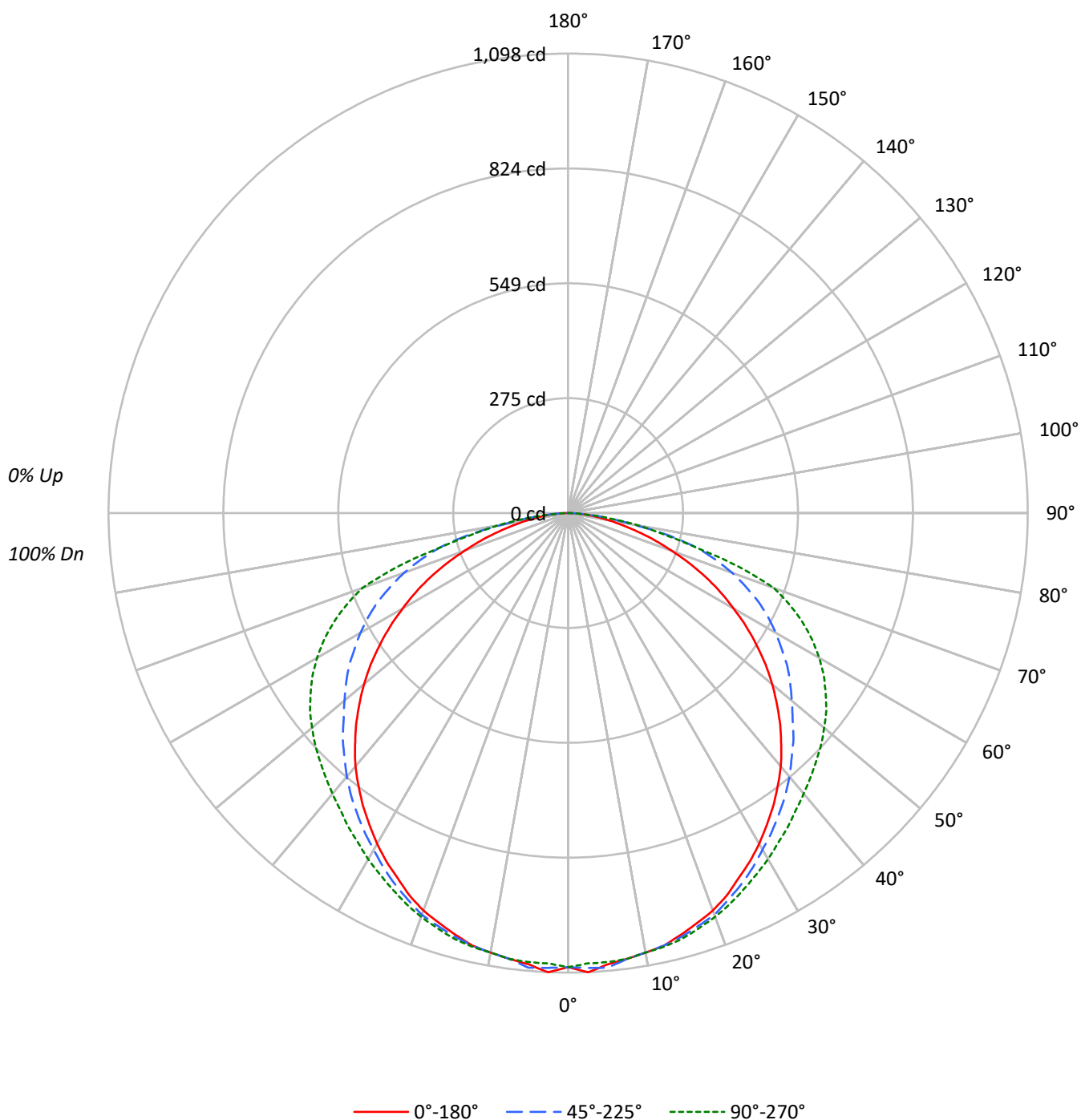
Input Watts (W): 46.56
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-50SE-RDP-UNV-L840-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-50SE-RDP-UNV-L840-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	103	99	95	105	101	97	93	97	93	90		93	90	87		89
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		77
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		68
4	81	68	59	52	79	67	58	52	64	57	51		62	56	50		60
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		54
6	68	55	45	39	66	54	45	39	52	44	38		50	43	38		48
7	63	49	40	34	62	49	40	34	47	39	34		45	39	33		44
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40
9	55	41	33	27	54	41	33	27	39	32	27		38	32	27		37
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1460	1460	1460
5°	1459	1466	1448
10°	1451	1444	1444
15°	1443	1439	1448
20°	1434	1435	1444
25°	1413	1418	1439
30°	1398	1400	1442
35°	1379	1391	1453
40°	1360	1383	1476
45°	1330	1376	1519
50°	1294	1374	1577
55°	1244	1394	1644
60°	1177	1412	1715
65°	1098	1433	1777
70°	967	1430	1808
75°	820	1370	1371
80°	666	932	1025
85°	509	510	470



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-50SE-RDP-UNV-L840-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.0	3.0
10°-20°	295.9	8.7
20°-30°	450.9	13.2
30°-40°	551.7	16.1
40°-50°	593.6	17.4
50°-60°	575.0	16.8
60°-70°	487.0	14.3
70°-80°	294.4	8.6
80°-90°	64.7	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°	849.7	24.9
0°-40°	1401.4	41.0
0°-60°	2569.9	75.2
0°-90°	3416.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3416.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1085	1085	1085	1085	1085	
5°	1082	1082	1090	1085	1077	103
15°	1043	1045	1048	1051	1053	294
25°	963	968	979	987	992	445
35°	854	860	878	902	915	534
45°	716	730	761	809	838	552
55°	549	573	639	714	751	491
65°	364	403	501	581	618	358
75°	172	234	316	321	313	185
85°	42	50	53	50	48	48
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-50SE-RDP-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1085.1	1085.1	1085.1	1085.1	1085.1
2.5°	1098.3	1095.7	1087.7	1082.4	1077.1
5°	1082.4	1082.4	1090.4	1085.1	1077.1
7.5°	1074.4	1074.4	1074.4	1087.7	1074.4
10°	1066.5	1069.1	1066.5	1077.1	1066.5
12.5°	1058.5	1058.5	1058.5	1061.2	1061.2
15°	1042.6	1045.3	1047.9	1050.6	1053.2
17.5°	1026.7	1029.3	1034.6	1037.3	1040.0
20°	1010.8	1013.4	1021.4	1021.4	1026.7
22.5°	989.5	989.5	1000.2	1002.8	1010.8
25°	963.0	968.3	978.9	986.9	992.2
27.5°	939.1	944.4	955.1	965.7	973.6
30°	912.6	917.9	928.5	944.4	955.1
32.5°	883.4	888.7	904.7	923.2	933.8
35°	854.2	859.6	878.1	902.0	915.3
37.5°	822.4	830.4	851.6	878.1	894.0
40°	790.6	798.5	822.4	851.6	875.5
42.5°	753.4	764.0	790.6	830.4	856.9
45°	716.3	729.6	761.4	809.1	838.3
47.5°	676.5	689.8	726.9	787.9	819.8
50°	636.7	652.6	697.7	764.0	798.5
52.5°	594.3	610.2	668.5	740.2	777.3
55°	549.2	573.0	639.4	713.6	750.8
57.5°	504.1	530.6	604.9	684.5	724.3
60°	456.3	488.1	573.0	652.6	692.4
62.5°	411.2	445.7	538.5	618.1	657.9
65°	363.5	403.2	501.4	581.0	618.1
67.5°	313.0	363.5	459.0	535.9	573.0
70°	262.6	321.0	416.5	488.1	522.6
72.5°	217.5	278.6	368.8	429.8	429.8
75°	172.4	233.5	315.7	321.0	313.0
77.5°	132.6	191.0	246.7	225.5	230.8
80°	98.2	145.9	156.5	164.5	169.8
82.5°	66.3	98.2	100.8	106.1	106.1
85°	42.4	50.4	53.1	50.4	47.8
87.5°	18.6	21.2	15.9	10.6	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)