

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-LD5-45SE-RDP-UNV-L850-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-LD5-45SE-RDP-UNV-L850-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3321.8 lumens
Efficiency: N/A
Efficacy: 83.2 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

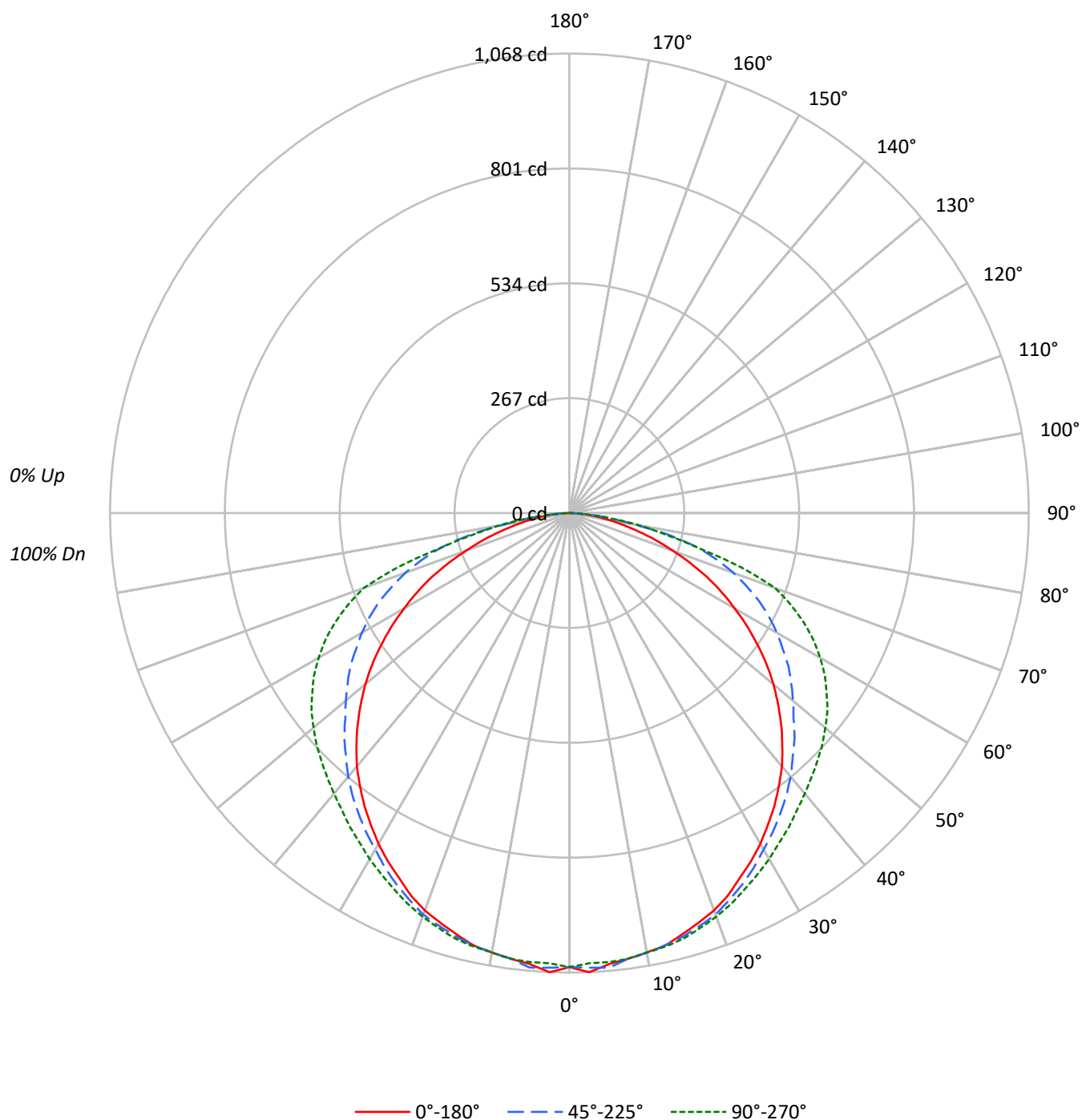
Input Watts (W): 39.91
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-45SE-RDP-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-45SE-RDP-UNV-L850-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°	1420	1420	1420
5°	1418	1425	1408
10°	1411	1404	1404
15°	1403	1400	1408
20°	1395	1395	1404
25°	1374	1379	1400
30°	1359	1361	1402
35°	1341	1352	1412
40°	1322	1345	1435
45°	1293	1338	1477
50°	1258	1336	1534
55°	1209	1356	1599
60°	1144	1373	1667
65°	1068	1394	1728
70°	940	1391	1758
75°	797	1332	1334
80°	647	907	997
85°	496	496	456



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-45SE-RDP-UNV-L850-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.2	3.0
10°-20°	287.7	8.7
20°-30°	438.4	13.2
30°-40°	536.4	16.1
40°-50°	577.2	17.4
50°-60°	559.1	16.8
60°-70°	473.6	14.3
70°-80°	286.3	8.6
80°-90°	62.9	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°	826.3	24.9
0°-40°	1362.7	41.0
0°-60°	2499.0	75.2
0°-90°	3321.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3321.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1055	1055	1055	1055	1055	
5°	1052	1052	1060	1055	1047	100
15°	1014	1016	1019	1022	1024	286
25°	936	942	952	960	965	432
35°	831	836	854	877	890	520
45°	696	709	740	787	815	537
55°	534	557	622	694	730	477
65°	353	392	488	565	601	348
75°	168	227	307	312	304	180
85°	41	49	52	49	46	47
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-45SE-RDP-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1055.1	1055.1	1055.1	1055.1	1055.1
2.5°	1068.0	1065.4	1057.7	1052.5	1047.4
5°	1052.5	1052.5	1060.3	1055.1	1047.4
7.5°	1044.8	1044.8	1044.8	1057.7	1044.8
10°	1037.0	1039.6	1037.0	1047.4	1037.0
12.5°	1029.3	1029.3	1029.3	1031.9	1031.9
15°	1013.8	1016.4	1019.0	1021.6	1024.1
17.5°	998.3	1000.9	1006.1	1008.7	1011.2
20°	982.9	985.4	993.2	993.2	998.3
22.5°	962.2	962.2	972.5	975.1	982.9
25°	936.4	941.6	951.9	959.6	964.8
27.5°	913.2	918.4	928.7	939.0	946.7
30°	887.4	892.6	902.9	918.4	928.7
32.5°	859.0	864.2	879.7	897.7	908.1
35°	830.7	835.8	853.9	877.1	890.0
37.5°	799.7	807.4	828.1	853.9	869.4
40°	768.7	776.5	799.7	828.1	851.3
42.5°	732.6	743.0	768.7	807.4	833.2
45°	696.5	709.4	740.4	786.8	815.2
47.5°	657.8	670.7	706.8	766.2	797.1
50°	619.1	634.6	678.5	743.0	776.5
52.5°	577.9	593.3	650.1	719.7	755.9
55°	534.0	557.2	621.7	693.9	730.1
57.5°	490.1	515.9	588.2	665.6	704.3
60°	443.7	474.7	557.2	634.6	673.3
62.5°	399.9	433.4	523.7	601.1	639.8
65°	353.4	392.1	487.6	565.0	601.1
67.5°	304.4	353.4	446.3	521.1	557.2
70°	255.4	312.1	405.0	474.7	508.2
72.5°	211.5	270.9	358.6	417.9	417.9
75°	167.7	227.0	307.0	312.1	304.4
77.5°	129.0	185.7	239.9	219.3	224.4
80°	95.4	141.9	152.2	159.9	165.1
82.5°	64.5	95.4	98.0	103.2	103.2
85°	41.3	49.0	51.6	49.0	46.4
87.5°	18.1	20.6	15.5	10.3	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)