

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-SQP-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-SQP-UNV-L850-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

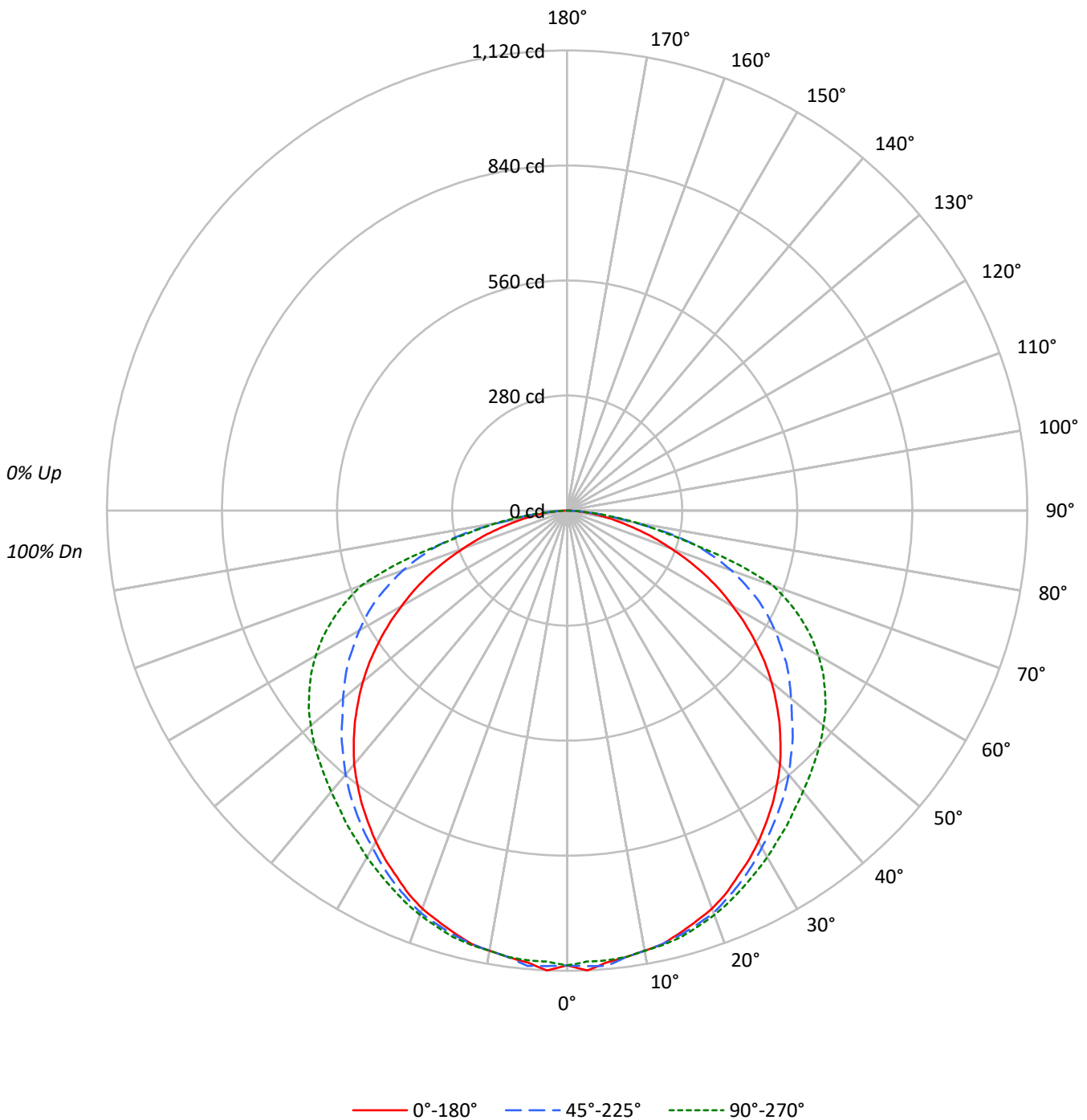
Lumens per Lamp: N/A
Luminaire Lumens: 3484.8 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 39.91
Input Voltage (V): NR
Input Current (A_{in}): 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-SQP-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

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

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1489	1489	1489
5°	1488	1495	1478
10°	1480	1473	1473
15°	1472	1468	1477
20°	1463	1464	1473
25°	1442	1447	1468
30°	1426	1428	1471
35°	1407	1419	1482
40°	1387	1411	1505
45°	1356	1403	1550
50°	1320	1401	1609
55°	1269	1422	1677
60°	1201	1441	1749
65°	1120	1462	1813
70°	986	1459	1844
75°	836	1397	1399
80°	679	951	1046
85°	520	520	478



TEST NUMBER: P#

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.1	3.0
10°-20°	301.8	8.7
20°-30°	459.9	13.2
30°-40°	562.8	16.1
40°-50°	605.5	17.4
50°-60°	586.5	16.8
60°-70°	496.9	14.3
70°-80°	300.3	8.6
80°-90°	66.0	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°	866.8	24.9
0°-40°	1429.6	41.0
0°-60°	2621.6	75.2
0°-90°	3484.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3484.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1107	1107	1107	1107	1107	
5°	1104	1104	1112	1107	1099	105
15°	1064	1066	1069	1072	1074	300
25°	982	988	999	1007	1012	453
35°	871	877	896	920	934	545
45°	731	744	777	825	855	563
55°	560	585	652	728	766	500
65°	371	411	512	593	631	365
75°	176	238	322	328	319	189
85°	43	51	54	51	49	49
90°	0	0	0	0	0	



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1106.9	1106.9	1106.9	1106.9	1106.9
2.5°	1120.4	1117.7	1109.6	1104.2	1098.8
5°	1104.2	1104.2	1112.3	1106.9	1098.8
7.5°	1096.0	1096.0	1096.0	1109.6	1096.0
10°	1087.9	1090.6	1087.9	1098.8	1087.9
12.5°	1079.8	1079.8	1079.8	1082.5	1082.5
15°	1063.6	1066.3	1069.0	1071.7	1074.4
17.5°	1047.3	1050.0	1055.5	1058.2	1060.9
20°	1031.1	1033.8	1041.9	1041.9	1047.3
22.5°	1009.4	1009.4	1020.3	1023.0	1031.1
25°	982.4	987.8	998.6	1006.7	1012.2
27.5°	958.0	963.4	974.3	985.1	993.2
30°	931.0	936.4	947.2	963.4	974.3
32.5°	901.2	906.6	922.8	941.8	952.6
35°	871.4	876.8	895.8	920.1	933.7
37.5°	838.9	847.1	868.7	895.8	912.0
40°	806.5	814.6	838.9	868.7	893.1
42.5°	768.6	779.4	806.5	847.1	874.1
45°	730.7	744.2	776.7	825.4	855.2
47.5°	690.1	703.6	741.5	803.8	836.2
50°	649.5	665.7	711.8	779.4	814.6
52.5°	606.2	622.4	682.0	755.1	792.9
55°	560.2	584.6	652.2	728.0	765.9
57.5°	514.2	541.3	617.0	698.2	738.8
60°	465.5	498.0	584.6	665.7	706.3
62.5°	419.5	454.7	549.4	630.6	671.2
65°	370.8	411.4	511.5	592.7	630.6
67.5°	319.3	370.8	468.2	546.7	584.6
70°	267.9	327.5	424.9	498.0	533.1
72.5°	221.9	284.2	376.2	438.4	438.4
75°	175.9	238.2	322.0	327.5	319.3
77.5°	135.3	194.9	251.7	230.0	235.4
80°	100.1	148.8	159.7	167.8	173.2
82.5°	67.7	100.1	102.8	108.3	108.3
85°	43.3	51.4	54.1	51.4	48.7
87.5°	18.9	21.7	16.2	10.8	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)