

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-LD5-30SE-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-LD5-30SE-SQP-UNV-L830-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1888.6 lumens
Efficiency: N/A
Efficacy: 80.4 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

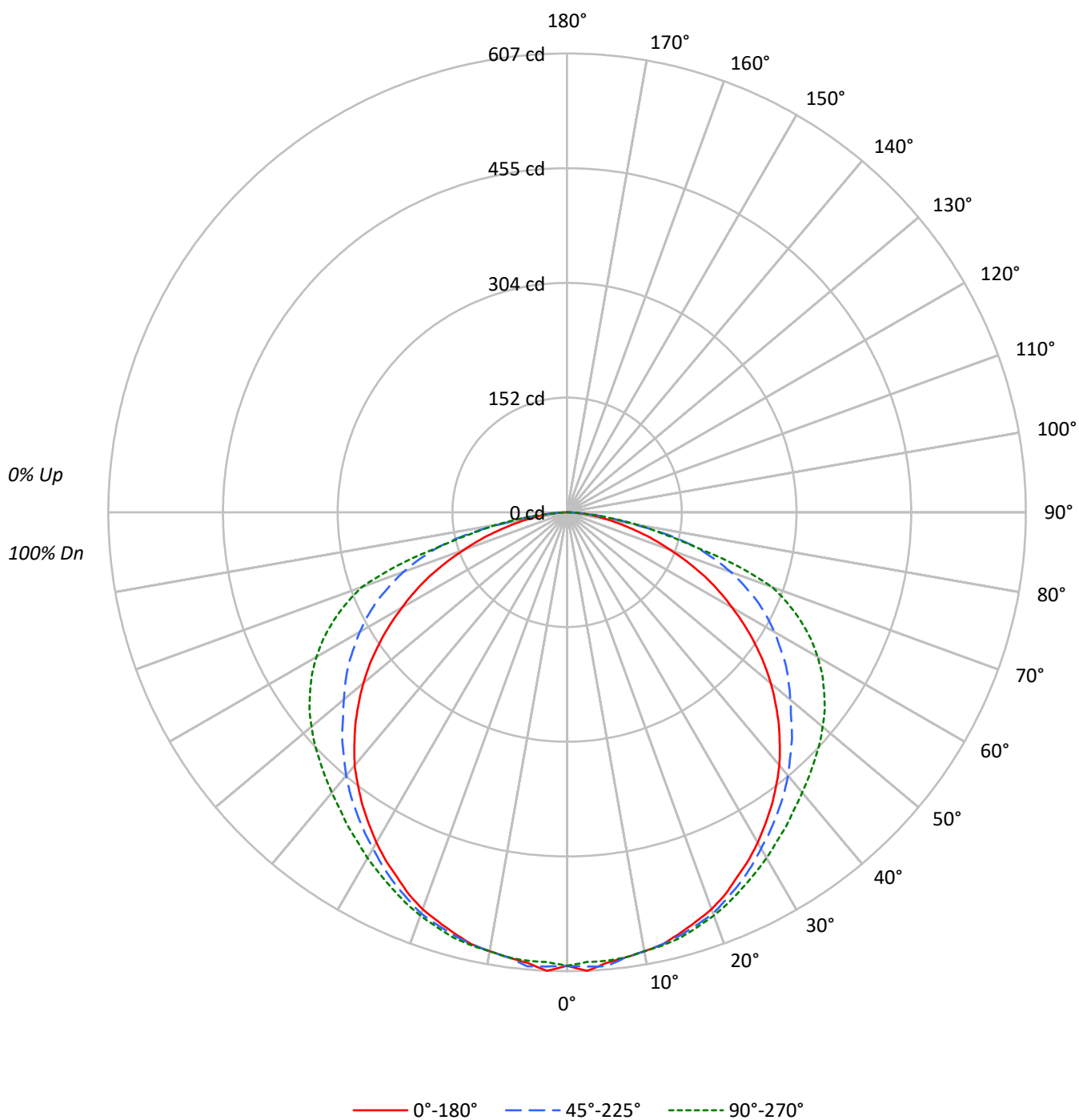
Input Watts (W): 23.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-30SE-SQP-UNV-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-30SE-SQP-UNV-L830-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	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°	807	807	807
5°	806	810	801
10°	802	798	798
15°	798	796	800
20°	793	793	798
25°	781	784	796
30°	773	774	797
35°	762	769	803
40°	752	765	816
45°	735	761	840
50°	715	759	872
55°	688	771	909
60°	650	781	948
65°	607	792	983
70°	534	791	999
75°	453	757	758
80°	368	515	567
85°	282	283	259



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-30SE-SQP-UNV-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.0	3.0
10°-20°	163.6	8.7
20°-30°	249.3	13.2
30°-40°	305.0	16.1
40°-50°	328.2	17.4
50°-60°	317.9	16.8
60°-70°	269.3	14.3
70°-80°	162.8	8.6
80°-90°	35.8	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°	469.8	24.9
0°-40°	774.7	41.0
0°-60°	1420.8	75.2
0°-90°	1888.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1888.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	600	600	600	600	600	
5°	598	598	603	600	596	57
15°	576	578	579	581	582	163
25°	532	535	541	546	548	246
35°	472	475	485	499	506	295
45°	396	403	421	447	463	305
55°	304	317	354	394	415	271
65°	201	223	277	321	342	198
75°	95	129	174	178	173	102
85°	24	28	29	28	26	27
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-30SE-SQP-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	599.8	599.8	599.8	599.8	599.8
2.5°	607.1	605.7	601.4	598.4	595.5
5°	598.4	598.4	602.8	599.8	595.5
7.5°	593.9	593.9	593.9	601.4	593.9
10°	589.6	591.1	589.6	595.5	589.6
12.5°	585.2	585.2	585.2	586.6	586.6
15°	576.4	577.9	579.3	580.8	582.3
17.5°	567.6	569.0	572.0	573.4	574.9
20°	558.8	560.2	564.7	564.7	567.6
22.5°	547.0	547.0	552.9	554.4	558.8
25°	532.4	535.3	541.2	545.6	548.5
27.5°	519.2	522.1	528.0	533.9	538.3
30°	504.5	507.5	513.3	522.1	528.0
32.5°	488.4	491.3	500.1	510.4	516.2
35°	472.2	475.2	485.4	498.7	506.0
37.5°	454.7	459.0	470.8	485.4	494.3
40°	437.1	441.5	454.7	470.8	484.0
42.5°	416.5	422.4	437.1	459.0	473.8
45°	396.0	403.4	420.9	447.4	463.4
47.5°	374.0	381.3	401.8	435.6	453.2
50°	352.0	360.8	385.7	422.4	441.5
52.5°	328.5	337.3	369.5	409.2	429.7
55°	303.6	316.8	353.5	394.5	415.1
57.5°	278.6	293.4	334.4	378.4	400.4
60°	252.2	269.9	316.8	360.8	382.8
62.5°	227.3	246.4	297.7	341.7	363.8
65°	200.9	223.0	277.2	321.2	341.7
67.5°	173.1	200.9	253.7	296.3	316.8
70°	145.2	177.5	230.3	269.9	288.9
72.5°	120.3	154.0	203.9	237.6	237.6
75°	95.3	129.1	174.5	177.5	173.1
77.5°	73.3	105.6	136.4	124.6	127.6
80°	54.2	80.7	86.5	90.9	93.9
82.5°	36.7	54.2	55.8	58.7	58.7
85°	23.5	27.8	29.4	27.8	26.4
87.5°	10.3	11.8	8.8	5.9	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)