

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-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-LD5-30SE-SQP-UNV-L840-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2154.1 lumens
Efficiency: N/A
Efficacy: 91.7 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

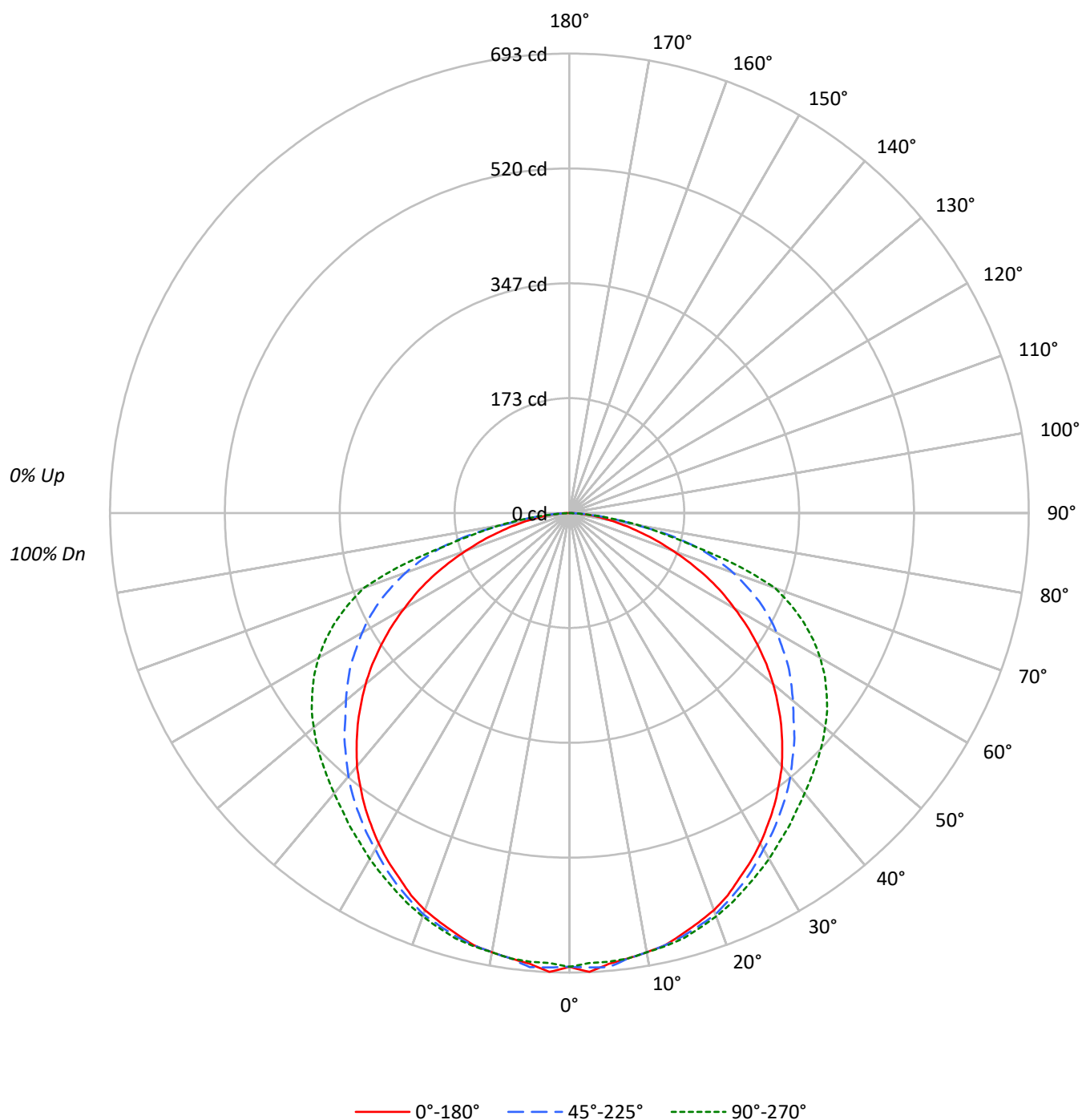
Input Watts (W): 23.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-30SE-SQP-UNV-L840-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-30SE-SQP-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°	921	921	921
5°	920	924	913
10°	915	910	911
15°	910	908	913
20°	904	905	910
25°	891	894	908
30°	881	883	909
35°	870	877	916
40°	858	872	931
45°	839	868	958
50°	816	866	995
55°	784	879	1036
60°	742	890	1081
65°	693	904	1121
70°	610	902	1140
75°	517	864	865
80°	420	588	647
85°	322	322	296



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-30SE-SQP-UNV-L840-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.0	3.0
10°-20°	186.6	8.7
20°-30°	284.3	13.2
30°-40°	347.9	16.1
40°-50°	374.3	17.4
50°-60°	362.6	16.8
60°-70°	307.1	14.3
70°-80°	185.6	8.6
80°-90°	40.8	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°	535.8	24.9
0°-40°	883.7	41.0
0°-60°	1620.5	75.2
0°-90°	2154.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2154.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	684	684	684	684	684	
5°	682	682	688	684	679	65
15°	657	659	661	662	664	186
25°	607	611	617	622	626	280
35°	539	542	554	569	577	337
45°	452	460	480	510	529	348
55°	346	361	403	450	473	309
65°	229	254	316	366	390	226
75°	109	147	199	202	197	117
85°	27	32	34	32	30	30
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-30SE-SQP-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	684.2	684.2	684.2	684.2	684.2
2.5°	692.6	690.9	685.9	682.5	679.2
5°	682.5	682.5	687.5	684.2	679.2
7.5°	677.5	677.5	677.5	685.9	677.5
10°	672.5	674.2	672.5	679.2	672.5
12.5°	667.5	667.5	667.5	669.1	669.1
15°	657.4	659.1	660.8	662.4	664.1
17.5°	647.4	649.1	652.4	654.1	655.7
20°	637.3	639.0	644.0	644.0	647.4
22.5°	624.0	624.0	630.7	632.3	637.3
25°	607.2	610.6	617.3	622.3	625.6
27.5°	592.2	595.5	602.2	608.9	613.9
30°	575.5	578.8	585.5	595.5	602.2
32.5°	557.1	560.4	570.4	582.1	588.8
35°	538.7	542.0	553.7	568.8	577.1
37.5°	518.6	523.6	537.0	553.7	563.7
40°	498.5	503.5	518.6	537.0	552.0
42.5°	475.1	481.8	498.5	523.6	540.3
45°	451.7	460.0	480.1	510.2	528.6
47.5°	426.6	434.9	458.4	496.8	516.9
50°	401.5	411.5	440.0	481.8	503.5
52.5°	374.7	384.8	421.6	466.7	490.1
55°	346.3	361.3	403.2	450.0	473.4
57.5°	317.8	334.6	381.4	431.6	456.7
60°	287.7	307.8	361.3	411.5	436.6
62.5°	259.3	281.0	339.6	389.8	414.9
65°	229.2	254.3	316.2	366.4	389.8
67.5°	197.4	229.2	289.4	337.9	361.3
70°	165.6	202.4	262.6	307.8	329.5
72.5°	137.2	175.6	232.5	271.0	271.0
75°	108.7	147.2	199.1	202.4	197.4
77.5°	83.6	120.4	155.6	142.2	145.5
80°	61.9	92.0	98.7	103.7	107.1
82.5°	41.8	61.9	63.6	66.9	66.9
85°	26.8	31.8	33.5	31.8	30.1
87.5°	11.7	13.4	10.0	6.7	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)