

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

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2121.0 lumens
Efficiency: N/A
Efficacy: 98.1 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

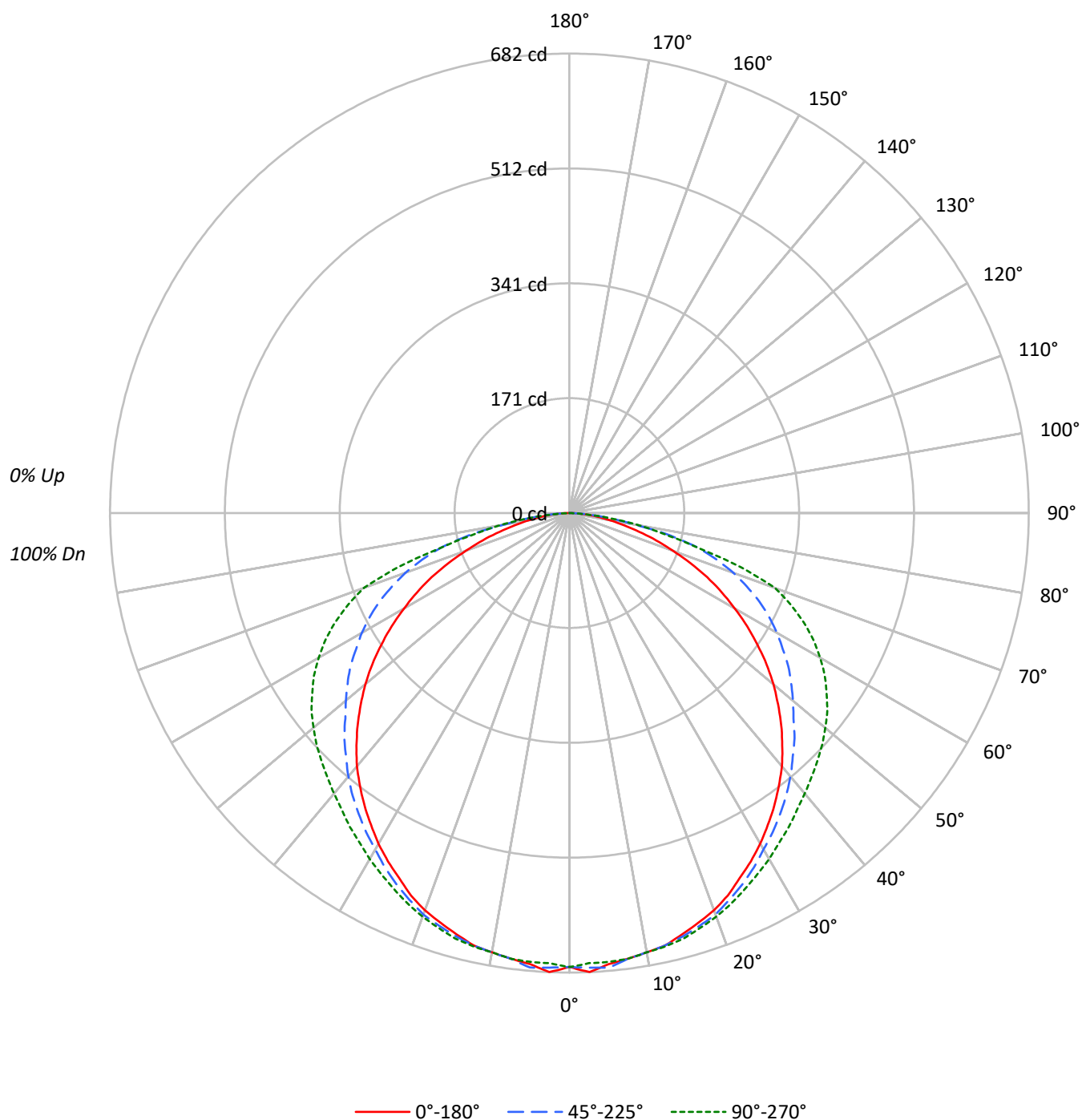
Input Watts (W): 21.62
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

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

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-30-SQP-UNV-L840-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°	906	906	906
5°	906	910	899
10°	901	896	897
15°	896	894	899
20°	890	891	896
25°	877	881	894
30°	868	869	895
35°	856	863	902
40°	844	859	916
45°	826	854	943
50°	804	853	979
55°	772	866	1021
60°	731	877	1065
65°	682	890	1104
70°	600	888	1122
75°	509	851	852
80°	413	579	636
85°	317	316	291



TEST NUMBER: P#

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.0	3.0
10°-20°	183.7	8.7
20°-30°	279.9	13.2
30°-40°	342.5	16.1
40°-50°	368.5	17.4
50°-60°	357.0	16.8
60°-70°	302.4	14.3
70°-80°	182.8	8.6
80°-90°	40.2	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°	527.6	24.9
0°-40°	870.1	41.0
0°-60°	1595.6	75.2
0°-90°	2121.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2121.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	674	674	674	674	674	
5°	672	672	677	674	669	64
15°	647	649	651	652	654	183
25°	598	601	608	613	616	276
35°	530	534	545	560	568	332
45°	445	453	473	502	520	343
55°	341	356	397	443	466	305
65°	226	250	311	361	384	222
75°	107	145	196	199	194	115
85°	26	31	33	31	30	30
90°	0	0	0	0	0	



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	673.7	673.7	673.7	673.7	673.7
2.5°	681.9	680.3	675.3	672.0	668.7
5°	672.0	672.0	677.0	673.7	668.7
7.5°	667.1	667.1	667.1	675.3	667.1
10°	662.1	663.8	662.1	668.7	662.1
12.5°	657.2	657.2	657.2	658.8	658.8
15°	647.3	649.0	650.6	652.3	653.9
17.5°	637.4	639.1	642.4	644.0	645.7
20°	627.5	629.2	634.1	634.1	637.4
22.5°	614.4	614.4	621.0	622.6	627.5
25°	597.9	601.2	607.8	612.7	616.0
27.5°	583.1	586.4	593.0	599.5	604.5
30°	566.6	569.9	576.5	586.4	593.0
32.5°	548.5	551.8	561.7	573.2	579.8
35°	530.4	533.7	545.2	560.0	568.3
37.5°	510.6	515.5	528.7	545.2	555.1
40°	490.8	495.8	510.6	528.7	543.5
42.5°	467.8	474.4	490.8	515.5	532.0
45°	444.7	453.0	472.7	502.4	520.5
47.5°	420.0	428.2	451.3	489.2	509.0
50°	395.3	405.2	433.2	474.4	495.8
52.5°	369.0	378.8	415.1	459.5	482.6
55°	341.0	355.8	397.0	443.1	466.1
57.5°	313.0	329.4	375.5	425.0	449.7
60°	283.3	303.1	355.8	405.2	429.9
62.5°	255.3	276.7	334.4	383.8	408.5
65°	225.7	250.4	311.3	360.7	383.8
67.5°	194.4	225.7	285.0	332.7	355.8
70°	163.1	199.3	258.6	303.1	324.5
72.5°	135.1	172.9	228.9	266.8	266.8
75°	107.1	144.9	196.0	199.3	194.4
77.5°	82.4	118.6	153.2	140.0	143.3
80°	60.9	90.6	97.2	102.1	105.4
82.5°	41.2	60.9	62.6	65.9	65.9
85°	26.4	31.3	32.9	31.3	29.6
87.5°	11.5	13.2	9.9	6.6	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)