

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-RDP-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-LD5-30-RDP-UNV-L830-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1772.5 lumens
Efficiency: N/A
Efficacy: 82.0 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

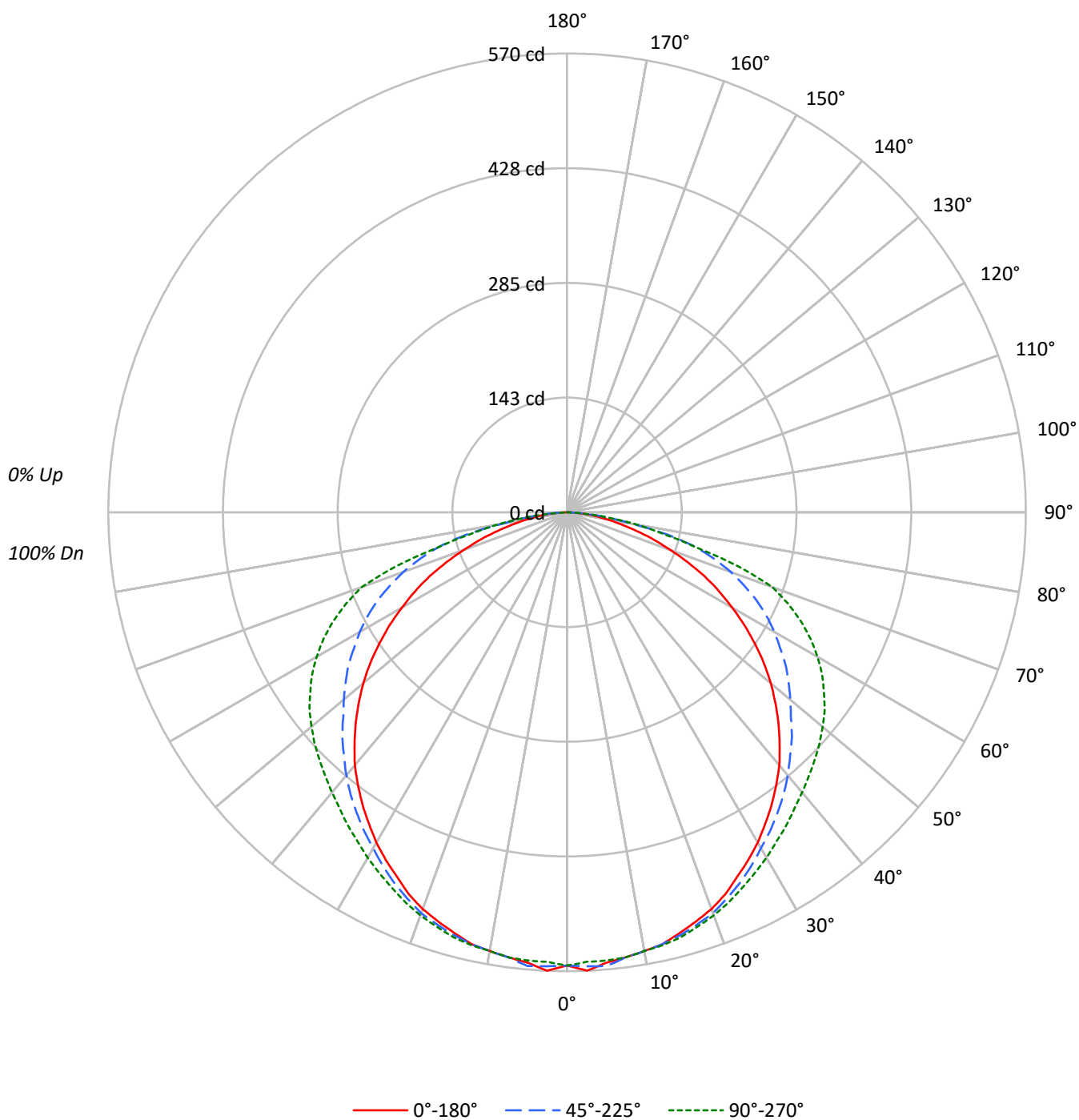
Input Watts (W): 21.62
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

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

Luminous Intensity Polar Plot



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-30-RDP-UNV-L830-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	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°	758	758	758
5°	757	761	752
10°	753	749	749
15°	749	747	751
20°	744	745	749
25°	733	736	747
30°	725	726	748
35°	716	722	754
40°	706	718	766
45°	690	714	788
50°	672	713	818
55°	645	723	853
60°	611	733	890
65°	570	744	922
70°	501	742	938
75°	426	711	711
80°	345	484	532
85°	264	265	244



TEST NUMBER: P#

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.5	3.0
10°-20°	153.5	8.7
20°-30°	233.9	13.2
30°-40°	286.2	16.1
40°-50°	308.0	17.4
50°-60°	298.3	16.8
60°-70°	252.7	14.3
70°-80°	152.8	8.6
80°-90°	33.6	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°	440.9	24.9
0°-40°	727.1	41.0
0°-60°	1333.5	75.2
0°-90°	1772.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1772.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	563	563	563	563	563	
5°	562	562	566	563	559	53
15°	541	542	544	545	546	153
25°	500	502	508	512	515	231
35°	443	446	456	468	475	277
45°	372	379	395	420	435	286
55°	285	297	332	370	390	255
65°	189	209	260	301	321	186
75°	90	121	164	166	162	96
85°	22	26	28	26	25	25
90°	0	0	0	0	0	



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	563.0	563.0	563.0	563.0	563.0
2.5°	569.9	568.5	564.4	561.6	558.9
5°	561.6	561.6	565.7	563.0	558.9
7.5°	557.5	557.5	557.5	564.4	557.5
10°	553.4	554.7	553.4	558.9	553.4
12.5°	549.2	549.2	549.2	550.6	550.6
15°	541.0	542.4	543.7	545.1	546.4
17.5°	532.8	534.1	536.8	538.3	539.6
20°	524.5	525.8	530.0	530.0	532.8
22.5°	513.5	513.5	519.0	520.3	524.5
25°	499.7	502.5	508.0	512.0	514.8
27.5°	487.3	490.0	495.5	501.0	505.2
30°	473.6	476.2	481.7	490.0	495.5
32.5°	458.4	461.1	469.4	479.0	484.5
35°	443.3	446.0	455.6	468.1	474.9
37.5°	426.7	430.8	441.8	455.6	463.9
40°	410.2	414.3	426.7	441.8	454.3
42.5°	390.9	396.4	410.2	430.8	444.6
45°	371.6	378.6	395.1	419.8	435.0
47.5°	351.0	357.9	377.2	408.8	425.3
50°	330.4	338.7	362.0	396.4	414.3
52.5°	308.4	316.6	346.8	384.1	403.4
55°	284.9	297.3	331.7	370.3	389.6
57.5°	261.5	275.3	313.9	355.1	375.8
60°	236.7	253.3	297.3	338.7	359.3
62.5°	213.4	231.2	279.4	320.7	341.3
65°	188.6	209.2	260.2	301.4	320.7
67.5°	162.4	188.6	238.2	278.1	297.3
70°	136.2	166.5	216.1	253.3	271.1
72.5°	112.9	144.5	191.3	223.0	223.0
75°	89.5	121.1	163.8	166.5	162.4
77.5°	68.8	99.1	128.1	117.0	119.8
80°	50.9	75.7	81.2	85.3	88.1
82.5°	34.4	50.9	52.3	55.1	55.1
85°	22.0	26.1	27.6	26.1	24.8
87.5°	9.6	11.0	8.3	5.5	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)