

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: **22CZ-LD5-32SE-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: 22CZ-LD5-32SE-RDP-UNV-L830-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1794.4 lumens
Efficiency: N/A
Efficacy: 58.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

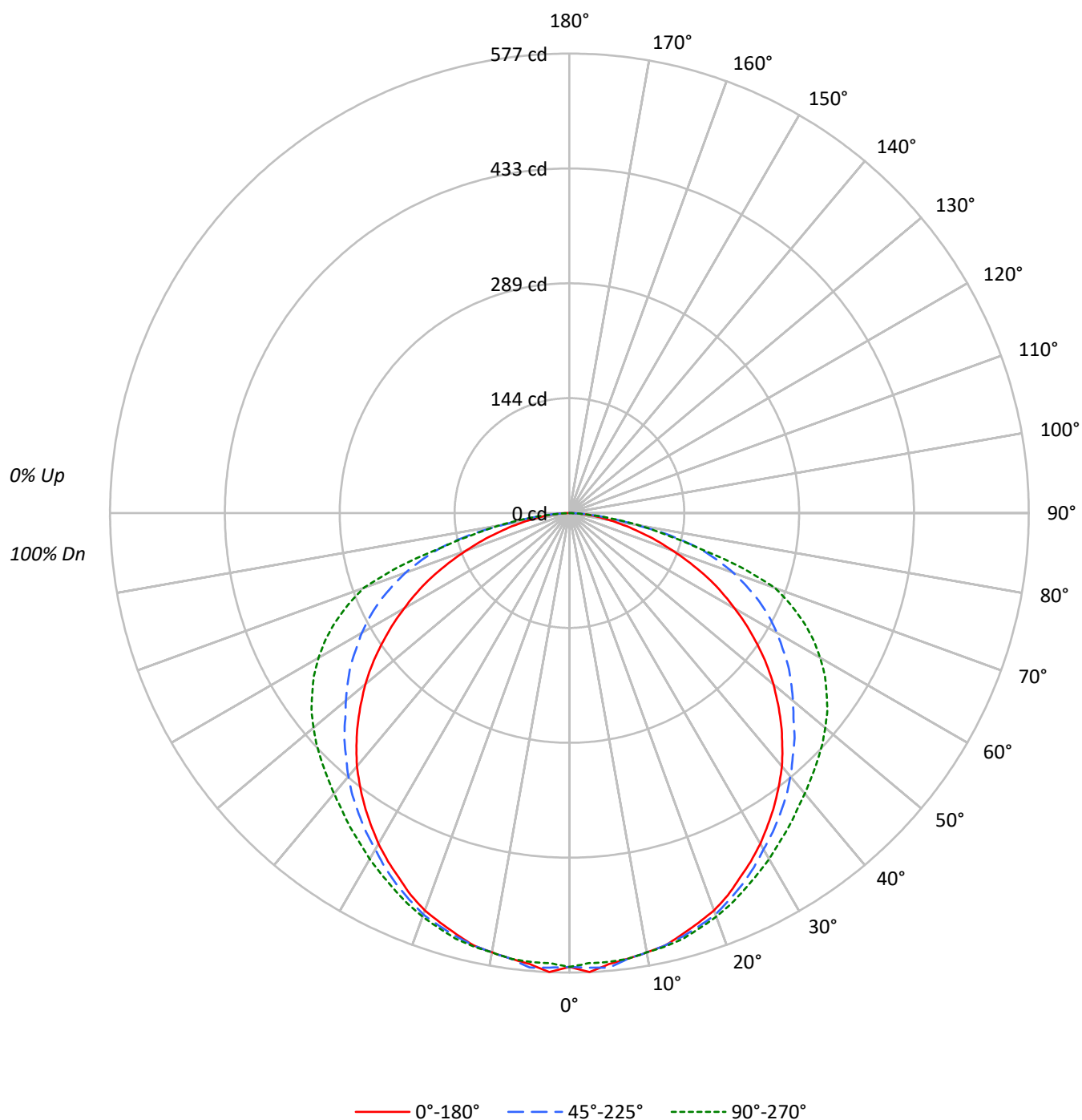
Input Watts (W): 30.53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

CATALOG NUMBER: 22CZ-LD5-32SE-RDP-UNV-L830-CD1-U

Luminous Intensity Polar Plot



TEST NUMBER: P#

CATALOG NUMBER: 22CZ-LD5-32SE-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°	1534	1534	1534
5°	1529	1538	1521
10°	1517	1512	1517
15°	1506	1505	1521
20°	1493	1498	1517
25°	1468	1478	1512
30°	1448	1456	1515
35°	1424	1444	1526
40°	1400	1433	1550
45°	1364	1422	1596
50°	1321	1415	1657
55°	1263	1431	1727
60°	1187	1443	1802
65°	1098	1456	1867
70°	954	1441	1900
75°	793	1365	1440
80°	623	909	1077
85°	438	475	493



TEST NUMBER: P#

CATALOG NUMBER: 22CZ-LD5-32SE-RDP-UNV-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.1	3.0
10°-20°	155.4	8.7
20°-30°	236.8	13.2
30°-40°	289.8	16.1
40°-50°	311.8	17.4
50°-60°	302.0	16.8
60°-70°	255.8	14.3
70°-80°	154.6	8.6
80°-90°	34.0	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°	446.3	24.9
0°-40°	736.1	41.0
0°-60°	1349.9	75.2
0°-90°	1794.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1794.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	570	570	570	570	570	
5°	569	569	573	570	566	54
15°	548	549	550	552	553	155
25°	506	509	514	518	521	234
35°	449	452	461	474	481	281
45°	376	383	400	425	440	290
55°	288	301	336	375	394	258
65°	191	212	263	305	325	188
75°	90	123	166	169	164	97
85°	22	26	28	26	25	25
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 22CZ-LD5-32SE-RDP-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	569.9	569.9	569.9	569.9	569.9
2.5°	576.9	575.5	571.3	568.6	565.7
5°	568.6	568.6	572.8	569.9	565.7
7.5°	564.4	564.4	564.4	571.3	564.4
10°	560.2	561.5	560.2	565.7	560.2
12.5°	556.0	556.0	556.0	557.4	557.4
15°	547.7	549.0	550.4	551.9	553.2
17.5°	539.3	540.6	543.5	544.8	546.2
20°	531.0	532.3	536.5	536.5	539.3
22.5°	519.7	519.7	525.4	526.8	531.0
25°	505.9	508.6	514.2	518.4	521.2
27.5°	493.3	496.1	501.7	507.2	511.4
30°	479.4	482.1	487.7	496.1	501.7
32.5°	464.1	466.8	475.2	485.0	490.5
35°	448.7	451.5	461.2	473.8	480.8
37.5°	432.0	436.1	447.4	461.2	469.6
40°	415.2	419.4	432.0	447.4	459.9
42.5°	395.8	401.4	415.2	436.1	450.1
45°	376.3	383.2	400.0	425.0	440.3
47.5°	355.3	362.3	381.8	413.9	430.6
50°	334.4	342.8	366.5	401.4	419.4
52.5°	312.2	320.5	351.1	388.8	408.3
55°	288.4	301.0	335.8	374.9	394.3
57.5°	264.8	278.7	317.7	359.6	380.5
60°	239.7	256.4	301.0	342.8	363.8
62.5°	216.0	234.1	282.9	324.7	345.6
65°	191.0	211.8	263.3	305.1	324.7
67.5°	164.4	191.0	241.1	281.5	301.0
70°	137.9	168.6	218.8	256.4	274.6
72.5°	114.3	146.3	193.7	225.7	225.7
75°	90.5	122.6	165.9	168.6	164.4
77.5°	69.6	100.3	129.6	118.5	121.2
80°	51.6	76.7	82.2	86.4	89.2
82.5°	34.9	51.6	52.9	55.8	55.8
85°	22.3	26.5	27.8	26.5	25.1
87.5°	9.8	11.1	8.4	5.6	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)