

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-LD5-20SE-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-LD5-20SE-RDP-UNV-L830-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1159.1 lumens
Efficiency: N/A
Efficacy: 67.4 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

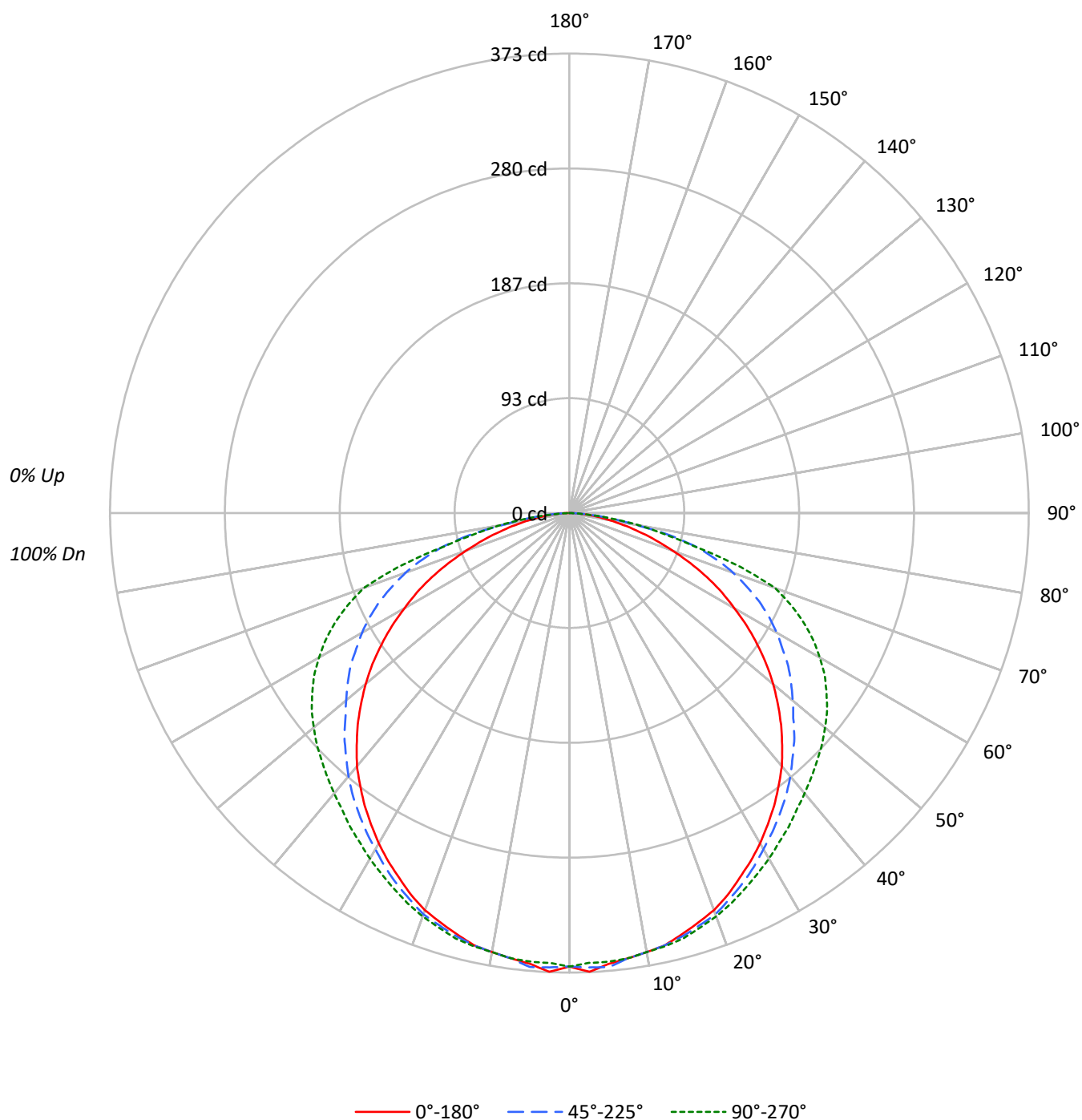
Input Watts (W): 17.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	991	991	991
5°	988	993	983
10°	980	977	980
15°	973	972	983
20°	965	968	980
25°	948	955	977
30°	935	940	979
35°	920	932	986
40°	905	925	1002
45°	881	918	1031
50°	853	914	1070
55°	816	925	1116
60°	767	933	1163
65°	709	940	1207
70°	616	932	1227
75°	513	882	931
80°	402	587	695
85°	283	307	318



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.0	3.0
10°-20°	100.4	8.7
20°-30°	153.0	13.2
30°-40°	187.2	16.1
40°-50°	201.4	17.4
50°-60°	195.1	16.8
60°-70°	165.3	14.3
70°-80°	99.9	8.6
80°-90°	21.9	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°	288.3	24.9
0°-40°	475.5	41.0
0°-60°	872.0	75.2
0°-90°	1159.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1159.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	368	368	368	368	368	
5°	367	367	370	368	366	35
15°	354	355	356	356	357	100
25°	327	328	332	335	337	151
35°	290	292	298	306	311	181
45°	243	248	258	275	284	187
55°	186	194	217	242	255	166
65°	123	137	170	197	210	121
75°	58	79	107	109	106	63
85°	14	17	18	17	16	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	368.1	368.1	368.1	368.1	368.1
2.5°	372.7	371.7	369.1	367.3	365.5
5°	367.3	367.3	369.9	368.1	365.5
7.5°	364.5	364.5	364.5	369.1	364.5
10°	361.9	362.8	361.9	365.5	361.9
12.5°	359.2	359.2	359.2	360.0	360.0
15°	353.8	354.6	355.6	356.4	357.4
17.5°	348.4	349.2	351.0	352.0	352.8
20°	343.0	343.9	346.6	346.6	348.4
22.5°	335.7	335.7	339.3	340.3	343.0
25°	326.8	328.5	332.1	334.9	336.7
27.5°	318.6	320.4	324.0	327.7	330.3
30°	309.6	311.4	315.0	320.4	324.0
32.5°	299.7	301.5	306.9	313.2	316.8
35°	289.8	291.6	297.9	306.1	310.6
37.5°	279.0	281.8	289.0	297.9	303.3
40°	268.3	270.9	279.0	289.0	297.1
42.5°	255.6	259.3	268.3	281.8	290.8
45°	243.0	247.6	258.3	274.6	284.4
47.5°	229.5	234.1	246.6	267.3	278.2
50°	216.0	221.4	236.7	259.3	270.9
52.5°	201.6	207.0	226.9	251.2	263.7
55°	186.3	194.5	217.0	242.2	254.8
57.5°	171.0	180.0	205.2	232.3	245.8
60°	154.8	165.6	194.5	221.4	234.9
62.5°	139.6	151.2	182.7	209.8	223.2
65°	123.3	136.8	170.1	197.1	209.8
67.5°	106.2	123.3	155.7	181.8	194.5
70°	89.1	109.0	141.4	165.6	177.4
72.5°	73.8	94.5	125.1	145.8	145.8
75°	58.5	79.2	107.2	109.0	106.2
77.5°	45.0	64.8	83.7	76.5	78.3
80°	33.3	49.5	53.1	55.8	57.6
82.5°	22.5	33.3	34.2	36.0	36.0
85°	14.4	17.1	18.0	17.1	16.2
87.5°	6.3	7.2	5.4	3.6	2.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)