

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-LD5-24-SQP-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-LD5-24-SQP-UNV-L830-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1629.7 lumens
Efficiency: N/A
Efficacy: 83.1 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

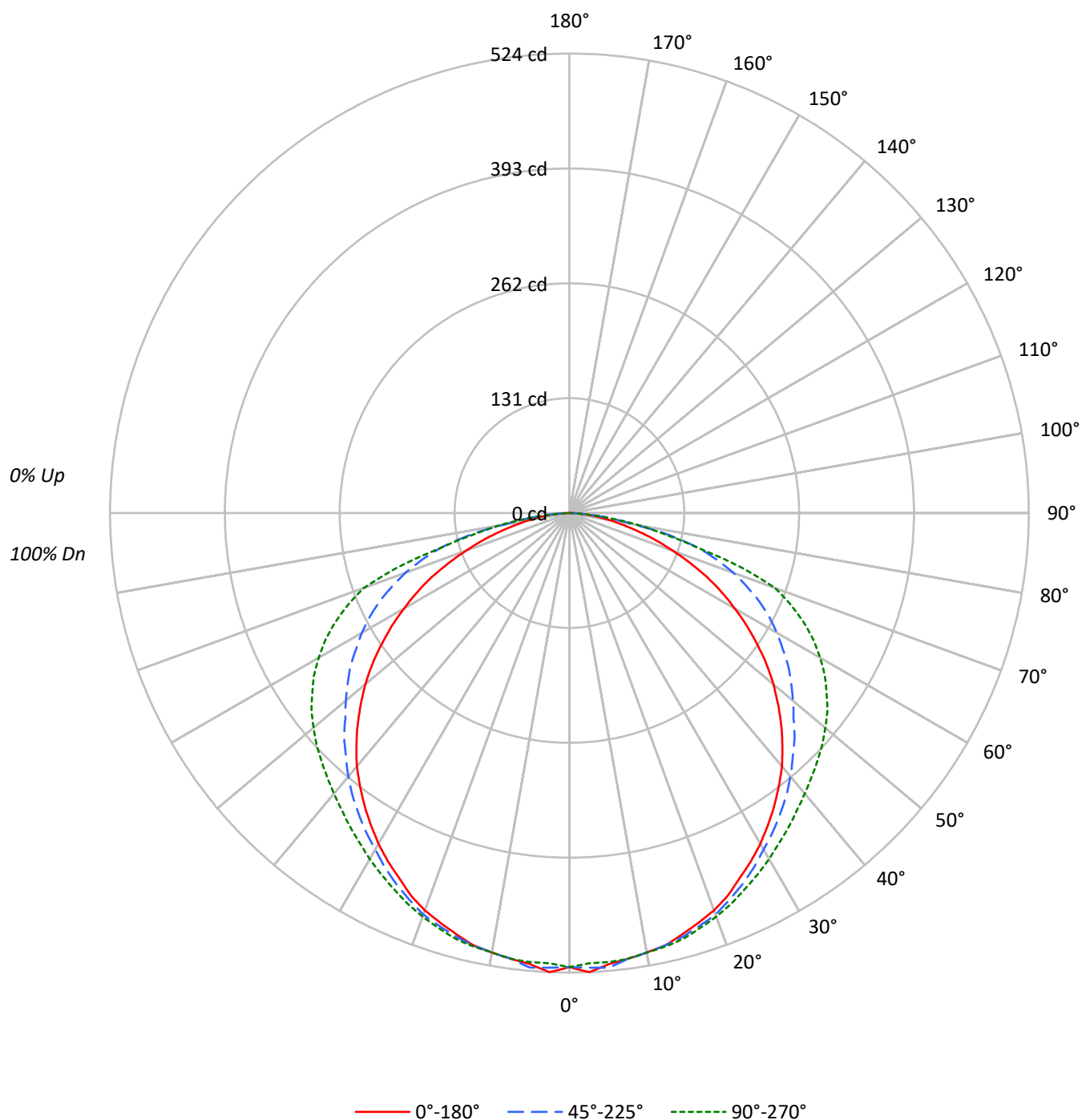
Input Watts (W): 19.62
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	1393	1393	1393
5°	1389	1397	1382
10°	1378	1373	1378
15°	1367	1367	1381
20°	1356	1360	1378
25°	1333	1342	1374
30°	1315	1323	1376
35°	1293	1312	1386
40°	1272	1301	1408
45°	1238	1291	1450
50°	1200	1285	1505
55°	1147	1300	1569
60°	1078	1311	1636
65°	997	1323	1696
70°	867	1309	1725
75°	721	1239	1308
80°	565	826	978
85°	397	432	448



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.1	3.0
10°-20°	141.2	8.7
20°-30°	215.1	13.2
30°-40°	263.2	16.1
40°-50°	283.2	17.4
50°-60°	274.3	16.8
60°-70°	232.4	14.3
70°-80°	140.4	8.6
80°-90°	30.8	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°	405.4	24.9
0°-40°	668.6	41.0
0°-60°	1226.1	75.2
0°-90°	1629.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1629.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	518	518	518	518	518	
5°	516	516	520	518	514	49
15°	497	499	500	501	502	140
25°	459	462	467	471	473	212
35°	408	410	419	430	437	255
45°	342	348	363	386	400	263
55°	262	273	305	340	358	234
65°	173	192	239	277	295	171
75°	82	111	151	153	149	88
85°	20	24	25	24	23	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	517.7	517.7	517.7	517.7	517.7
2.5°	524.0	522.7	518.9	516.4	513.9
5°	516.4	516.4	520.2	517.7	513.9
7.5°	512.6	512.6	512.6	518.9	512.6
10°	508.8	510.1	508.8	513.9	508.8
12.5°	505.0	505.0	505.0	506.3	506.3
15°	497.4	498.7	500.0	501.2	502.5
17.5°	489.8	491.1	493.6	494.9	496.2
20°	482.2	483.5	487.3	487.3	489.8
22.5°	472.1	472.1	477.2	478.4	482.2
25°	459.4	462.0	467.0	470.8	473.4
27.5°	448.0	450.6	455.6	460.8	464.6
30°	435.4	438.0	443.0	450.6	455.6
32.5°	421.5	424.0	431.6	440.4	445.6
35°	407.5	410.1	419.0	430.4	436.6
37.5°	392.3	396.2	406.3	419.0	426.6
40°	377.2	381.0	392.3	406.3	417.7
42.5°	359.5	364.5	377.2	396.2	408.8
45°	341.7	348.1	363.3	386.0	400.0
47.5°	322.7	329.1	346.8	375.9	391.1
50°	303.7	311.3	332.9	364.5	381.0
52.5°	283.5	291.1	318.9	353.1	370.9
55°	262.0	273.4	305.0	340.5	358.2
57.5°	240.4	253.2	288.6	326.5	345.5
60°	217.7	232.8	273.4	311.3	330.3
62.5°	196.2	212.6	257.0	294.9	313.9
65°	173.4	192.4	239.2	277.2	294.9
67.5°	149.3	173.4	219.0	255.6	273.4
70°	125.3	153.1	198.7	232.8	249.4
72.5°	103.7	132.9	175.9	205.0	205.0
75°	82.3	111.3	150.6	153.1	149.3
77.5°	63.3	91.1	117.7	107.5	110.1
80°	46.8	69.6	74.7	78.5	81.0
82.5°	31.6	46.8	48.1	50.6	50.6
85°	20.2	24.0	25.3	24.0	22.8
87.5°	8.8	10.2	7.6	5.0	3.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)