

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

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1627.8 lumens
Efficiency: N/A
Efficacy: 77.1 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

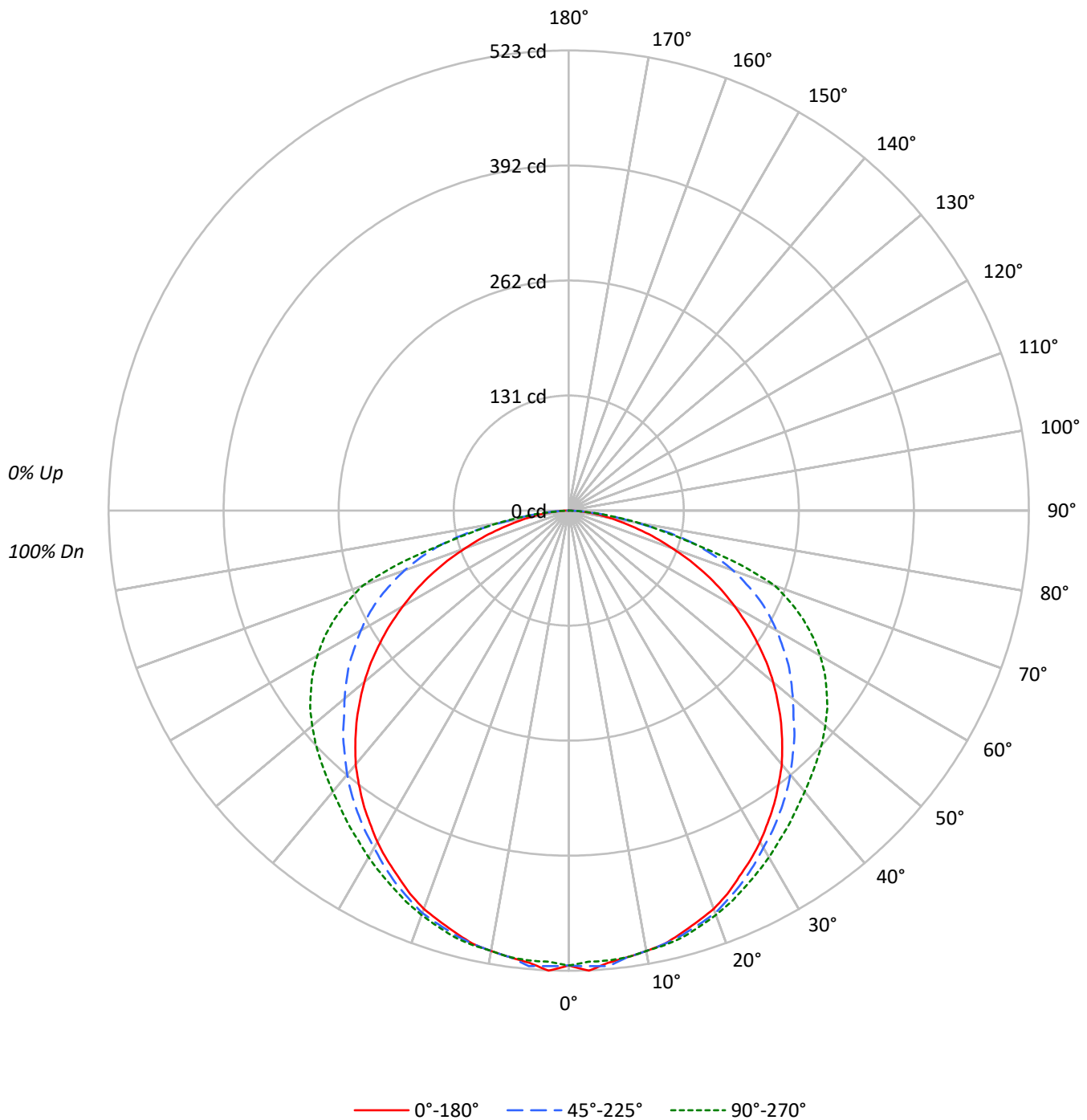
Input Watts (W): 21.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1391	1391	1391
5°	1387	1395	1381
10°	1377	1372	1377
15°	1366	1365	1380
20°	1354	1359	1376
25°	1331	1341	1372
30°	1313	1321	1374
35°	1292	1310	1384
40°	1270	1300	1406
45°	1237	1289	1448
50°	1199	1284	1503
55°	1146	1298	1567
60°	1077	1309	1634
65°	996	1321	1694
70°	865	1308	1722
75°	720	1237	1307
80°	564	825	977
85°	397	432	448



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.1	3.0
10°-20°	141.0	8.7
20°-30°	214.8	13.2
30°-40°	262.9	16.1
40°-50°	282.8	17.4
50°-60°	274.0	16.8
60°-70°	232.1	14.3
70°-80°	140.3	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°	404.9	24.9
0°-40°	667.8	41.0
0°-60°	1224.6	75.2
0°-90°	1627.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1627.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	517	517	517	517	517	
5°	516	516	520	517	513	49
15°	497	498	499	501	502	140
25°	459	461	466	470	473	212
35°	407	410	418	430	436	255
45°	341	348	363	386	400	263
55°	262	273	305	340	358	234
65°	173	192	239	277	294	171
75°	82	111	150	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°	517.0	517.0	517.0	517.0	517.0
2.5°	523.4	522.1	518.3	515.8	513.3
5°	515.8	515.8	519.6	517.0	513.3
7.5°	512.0	512.0	512.0	518.3	512.0
10°	508.2	509.5	508.2	513.3	508.2
12.5°	504.4	504.4	504.4	505.7	505.7
15°	496.8	498.1	499.3	500.6	501.9
17.5°	489.2	490.5	493.0	494.3	495.5
20°	481.6	482.9	486.7	486.7	489.2
22.5°	471.5	471.5	476.6	477.8	481.6
25°	458.8	461.4	466.4	470.2	472.8
27.5°	447.5	450.0	455.0	460.2	464.0
30°	434.9	437.4	442.4	450.0	455.0
32.5°	420.9	423.5	431.1	439.9	445.0
35°	407.1	409.5	418.5	429.8	436.1
37.5°	391.9	395.7	405.7	418.5	426.0
40°	376.7	380.5	391.9	405.7	417.1
42.5°	359.0	364.0	376.7	395.7	408.3
45°	341.3	347.6	362.8	385.6	399.5
47.5°	322.3	328.7	346.4	375.4	390.6
50°	303.4	310.9	332.5	364.0	380.5
52.5°	283.2	290.8	318.5	352.7	370.4
55°	261.6	273.0	304.7	340.1	357.8
57.5°	240.2	252.8	288.2	326.1	345.1
60°	217.5	232.6	273.0	310.9	329.9
62.5°	196.0	212.4	256.6	294.5	313.5
65°	173.2	192.2	238.9	276.8	294.5
67.5°	149.2	173.2	218.7	255.4	273.0
70°	125.1	153.0	198.5	232.6	249.0
72.5°	103.6	132.7	175.8	204.8	204.8
75°	82.2	111.2	150.4	153.0	149.2
77.5°	63.2	91.0	117.6	107.4	110.0
80°	46.7	69.5	74.6	78.4	80.9
82.5°	31.6	46.7	48.1	50.5	50.5
85°	20.2	24.0	25.3	24.0	22.8
87.5°	8.8	10.1	7.6	5.0	3.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)