

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-L840-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-L840-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1858.9 lumens
Efficiency: N/A
Efficacy: 94.7 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

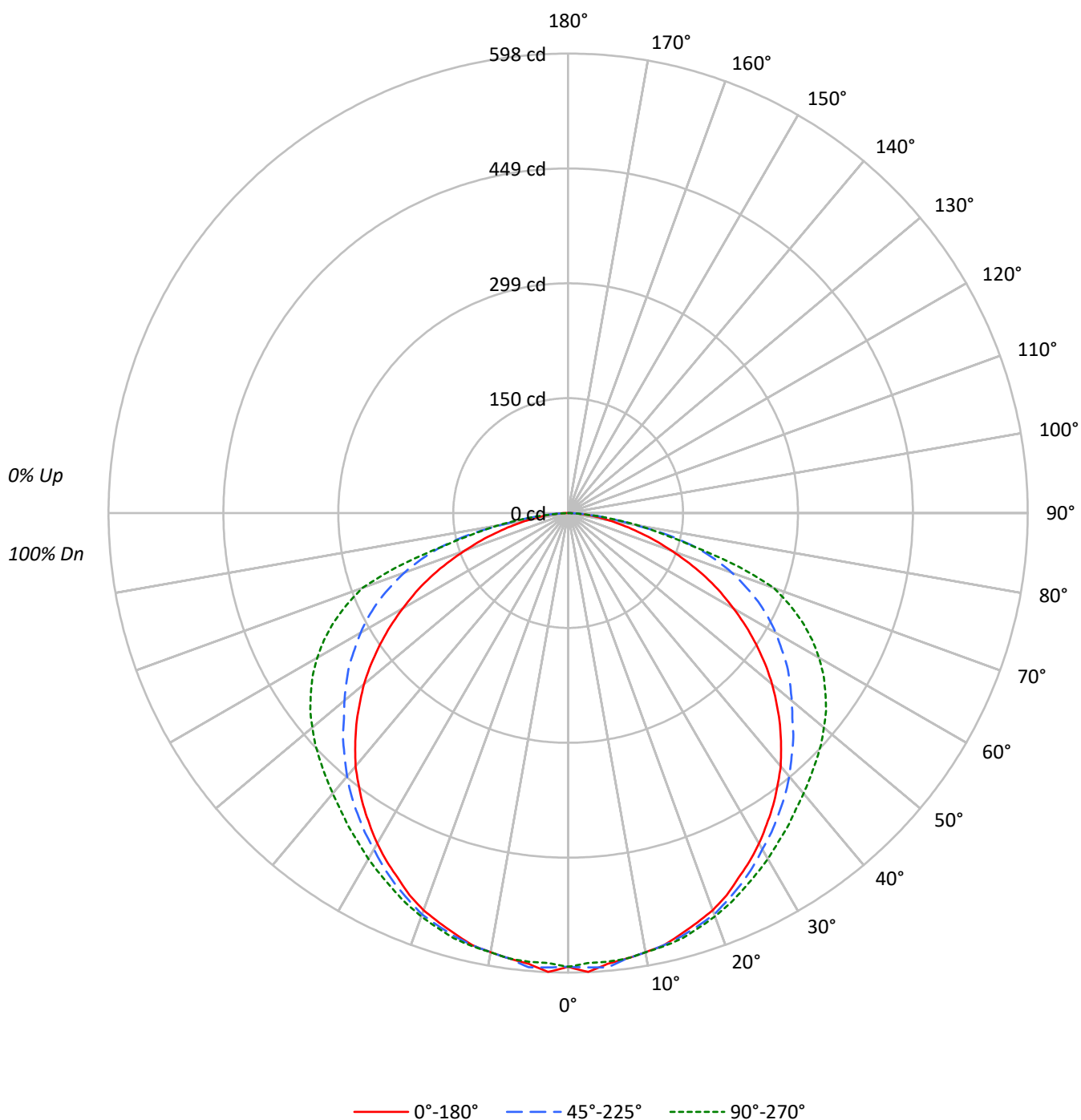
Input Watts (W): 19.62
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	1589	1589	1589
5°	1584	1593	1576
10°	1572	1566	1572
15°	1560	1559	1575
20°	1547	1552	1571
25°	1520	1531	1567
30°	1500	1509	1570
35°	1475	1496	1581
40°	1450	1484	1606
45°	1413	1473	1653
50°	1369	1466	1717
55°	1308	1482	1789
60°	1230	1495	1866
65°	1138	1508	1935
70°	989	1493	1967
75°	822	1413	1492
80°	645	942	1116
85°	454	493	511



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.1	3.0
10°-20°	161.0	8.7
20°-30°	245.3	13.2
30°-40°	300.2	16.1
40°-50°	323.0	17.4
50°-60°	312.9	16.8
60°-70°	265.0	14.3
70°-80°	160.2	8.6
80°-90°	35.2	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°	462.4	24.9
0°-40°	762.6	41.0
0°-60°	1398.5	75.2
0°-90°	1858.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1858.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	590	590	590	590	590	
5°	589	589	593	590	586	56
15°	567	569	570	572	573	160
25°	524	527	533	537	540	242
35°	465	468	478	491	498	291
45°	390	397	414	440	456	300
55°	299	312	348	388	408	267
65°	198	219	273	316	336	195
75°	94	127	172	175	170	101
85°	23	27	29	27	26	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	590.4	590.4	590.4	590.4	590.4
2.5°	597.7	596.2	591.9	589.0	586.1
5°	589.0	589.0	593.3	590.4	586.1
7.5°	584.7	584.7	584.7	591.9	584.7
10°	580.3	581.8	580.3	586.1	580.3
12.5°	576.0	576.0	576.0	577.4	577.4
15°	567.3	568.8	570.2	571.7	573.1
17.5°	558.7	560.1	563.0	564.5	565.9
20°	550.0	551.5	555.8	555.8	558.7
22.5°	538.5	538.5	544.2	545.7	550.0
25°	524.0	526.9	532.7	537.0	539.9
27.5°	511.0	513.9	519.7	525.5	529.8
30°	496.6	499.5	505.3	513.9	519.7
32.5°	480.7	483.6	492.3	502.4	508.2
35°	464.8	467.7	477.8	490.8	498.0
37.5°	447.5	451.9	463.4	477.8	486.5
40°	430.2	434.5	447.5	463.4	476.4
42.5°	410.0	415.8	430.2	451.9	466.3
45°	389.8	397.0	414.3	440.3	456.2
47.5°	368.1	375.3	395.6	428.8	446.1
50°	346.5	355.1	379.7	415.8	434.5
52.5°	323.4	332.0	363.8	402.8	423.0
55°	298.8	311.8	347.9	388.3	408.5
57.5°	274.3	288.7	329.1	372.5	394.1
60°	248.3	265.6	311.8	355.1	376.8
62.5°	223.8	242.5	293.1	336.4	358.0
65°	197.8	219.4	272.8	316.2	336.4
67.5°	170.3	197.8	249.7	291.6	311.8
70°	142.9	174.7	226.6	265.6	284.4
72.5°	118.4	151.6	200.7	233.9	233.9
75°	93.8	127.0	171.8	174.7	170.3
77.5°	72.2	103.9	134.3	122.7	125.6
80°	53.4	79.4	85.2	89.5	92.4
82.5°	36.1	53.4	54.9	57.7	57.7
85°	23.1	27.4	28.9	27.4	26.0
87.5°	10.1	11.5	8.7	5.8	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)