

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-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-LD5-24SE-SQP-UNV-L840-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1856.7 lumens
Efficiency: N/A
Efficacy: 88.0 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

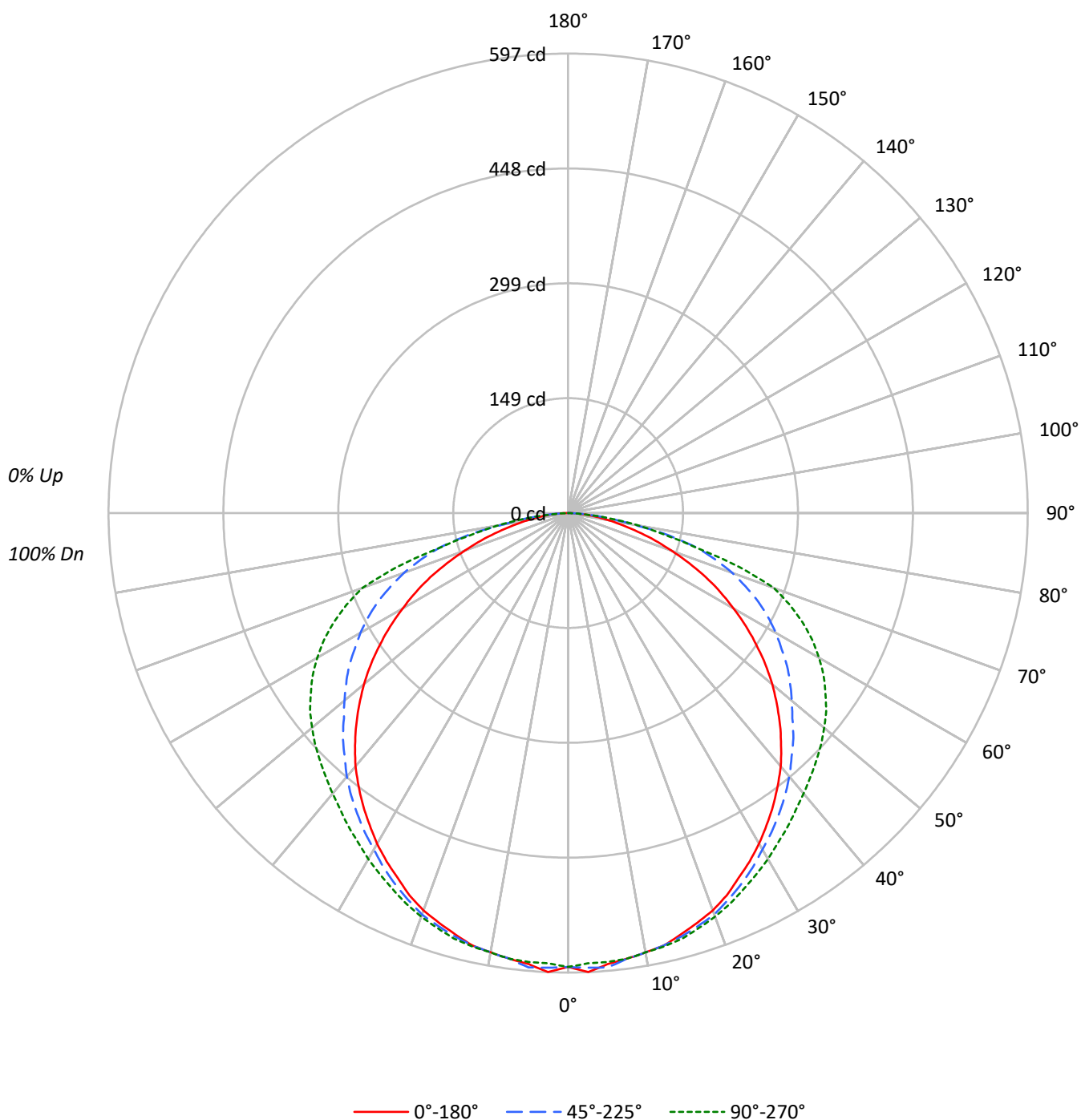
Input Watts (W): 21.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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°	1587	1587	1587
5°	1582	1591	1574
10°	1570	1564	1570
15°	1558	1557	1574
20°	1545	1550	1569
25°	1519	1529	1565
30°	1498	1507	1568
35°	1474	1494	1579
40°	1449	1482	1604
45°	1411	1471	1651
50°	1367	1464	1715
55°	1307	1481	1787
60°	1228	1493	1864
65°	1136	1507	1932
70°	987	1492	1965
75°	821	1412	1490
80°	644	941	1114
85°	454	492	511



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.0	3.0
10°-20°	160.8	8.7
20°-30°	245.0	13.2
30°-40°	299.8	16.1
40°-50°	322.6	17.4
50°-60°	312.5	16.8
60°-70°	264.7	14.3
70°-80°	160.0	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°	461.8	24.9
0°-40°	761.7	41.0
0°-60°	1396.8	75.2
0°-90°	1856.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1856.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	590	590	590	590	590	
5°	588	588	593	590	585	56
15°	567	568	570	571	572	160
25°	523	526	532	536	539	242
35°	464	467	477	490	497	290
45°	389	396	414	440	456	300
55°	298	311	348	388	408	267
65°	198	219	272	316	336	194
75°	94	127	172	174	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°	589.7	589.7	589.7	589.7	589.7
2.5°	596.9	595.5	591.2	588.3	585.4
5°	588.3	588.3	592.6	589.7	585.4
7.5°	584.0	584.0	584.0	591.2	584.0
10°	579.6	581.1	579.6	585.4	579.6
12.5°	575.3	575.3	575.3	576.7	576.7
15°	566.7	568.1	569.5	571.0	572.4
17.5°	558.0	559.4	562.3	563.8	565.2
20°	549.4	550.8	555.1	555.1	558.0
22.5°	537.8	537.8	543.6	545.0	549.4
25°	523.4	526.3	532.0	536.4	539.3
27.5°	510.4	513.3	519.1	524.8	529.2
30°	496.0	498.9	504.7	513.3	519.1
32.5°	480.1	483.0	491.7	501.8	507.5
35°	464.3	467.2	477.3	490.2	497.4
37.5°	447.0	451.3	462.8	477.3	485.9
40°	429.7	434.0	447.0	462.8	475.8
42.5°	409.5	415.3	429.7	451.3	465.7
45°	389.3	396.5	413.8	439.8	455.6
47.5°	367.7	374.9	395.1	428.2	445.5
50°	346.0	354.7	379.2	415.3	434.0
52.5°	323.0	331.6	363.4	402.3	422.5
55°	298.5	311.4	347.5	387.9	408.0
57.5°	274.0	288.4	328.7	372.0	393.6
60°	248.0	265.3	311.4	354.7	376.3
62.5°	223.5	242.2	292.7	336.0	357.6
65°	197.5	219.2	272.5	315.8	336.0
67.5°	170.1	197.5	249.4	291.3	311.4
70°	142.7	174.5	226.4	265.3	284.0
72.5°	118.2	151.4	200.4	233.6	233.6
75°	93.7	126.9	171.6	174.5	170.1
77.5°	72.1	103.8	134.1	122.6	125.4
80°	53.3	79.3	85.1	89.4	92.3
82.5°	36.0	53.3	54.8	57.7	57.7
85°	23.1	27.4	28.8	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)