

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-LD5-32SE-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-LD5-32SE-SQP-UNV-L830-CD1-U  
Description:

Light Source: -  
Ballast/Driver: -

**Summary**

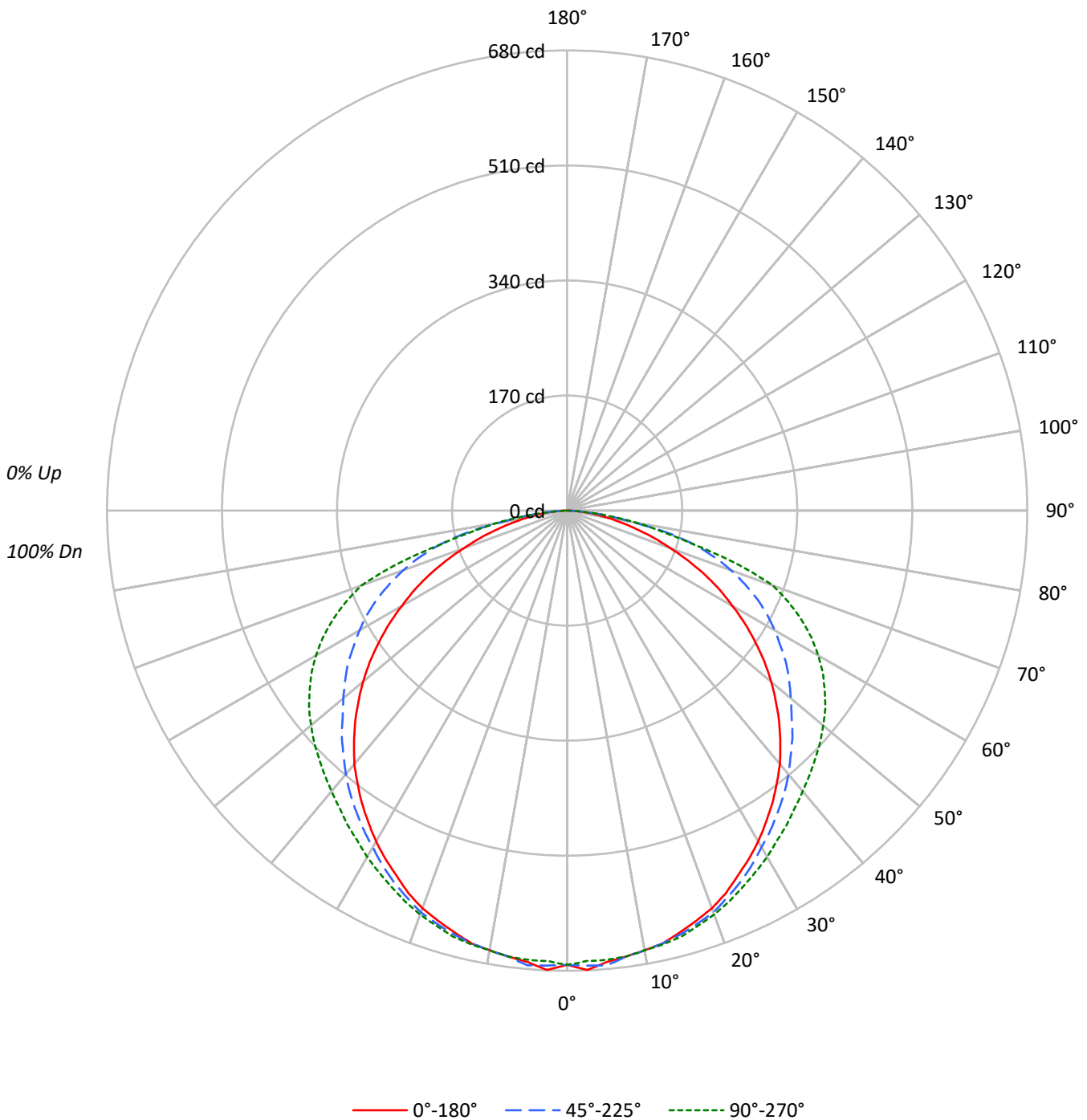
Lumens per Lamp: N/A  
Luminaire Lumens: 2113.4 lumens  
Efficiency: N/A  
Efficacy: 69.2 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 30.53  
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	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°	1806	1806	1806
5°	1801	1811	1792
10°	1787	1781	1787
15°	1773	1773	1791
20°	1759	1764	1786
25°	1728	1741	1781
30°	1705	1715	1785
35°	1677	1701	1797
40°	1649	1687	1826
45°	1606	1674	1880
50°	1556	1667	1952
55°	1488	1686	2034
60°	1398	1700	2122
65°	1293	1715	2199
70°	1123	1697	2236
75°	935	1607	1697
80°	733	1071	1269
85°	515	562	580



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.7	3.0
10°-20°	183.0	8.7
20°-30°	278.9	13.2
30°-40°	341.3	16.1
40°-50°	367.2	17.4
50°-60°	355.7	16.8
60°-70°	301.3	14.3
70°-80°	182.1	8.6
80°-90°	40.0	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°	525.7	24.9
0°-40°	867.0	41.0
0°-60°	1589.9	75.2
0°-90°	2113.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2113.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	671	671	671	671	671	
5°	670	670	675	671	666	64
15°	645	647	648	650	652	182
25°	596	599	606	611	614	275
35°	528	532	543	558	566	331
45°	443	451	471	501	519	342
55°	340	354	396	442	464	303
65°	225	250	310	360	382	221
75°	107	144	195	198	194	115
85°	26	31	33	31	30	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	671.3	671.3	671.3	671.3	671.3
2.5°	679.5	677.8	672.9	669.7	666.3
5°	669.7	669.7	674.6	671.3	666.3
7.5°	664.7	664.7	664.7	672.9	664.7
10°	659.8	661.4	659.8	666.3	659.8
12.5°	654.8	654.8	654.8	656.5	656.5
15°	645.0	646.7	648.3	650.0	651.6
17.5°	635.2	636.8	640.1	641.7	643.3
20°	625.3	627.0	631.8	631.8	635.2
22.5°	612.2	612.2	618.7	620.4	625.3
25°	595.7	599.1	605.6	610.6	613.8
27.5°	581.0	584.2	590.9	597.5	602.4
30°	564.6	567.9	574.5	584.2	590.9
32.5°	546.5	549.9	559.6	571.1	577.7
35°	528.5	531.8	543.3	558.0	566.2
37.5°	508.8	513.8	526.9	543.3	553.1
40°	489.1	494.0	508.8	526.9	541.6
42.5°	466.2	472.7	489.1	513.8	530.1
45°	443.2	451.3	471.0	500.6	518.6
47.5°	418.6	426.7	449.7	487.4	507.1
50°	393.9	403.8	431.7	472.7	494.0
52.5°	367.6	377.5	413.6	457.9	480.9
55°	339.7	354.5	395.6	441.5	464.5
57.5°	311.9	328.2	374.2	423.4	448.1
60°	282.3	302.0	354.5	403.8	428.4
62.5°	254.4	275.7	333.2	382.4	407.1
65°	224.9	249.5	310.2	359.5	382.4
67.5°	193.7	224.9	284.0	331.6	354.5
70°	162.4	198.5	257.6	302.0	323.3
72.5°	134.6	172.3	228.1	265.9	265.9
75°	106.7	144.4	195.3	198.5	193.7
77.5°	82.1	118.2	152.7	139.6	142.8
80°	60.7	90.2	96.8	101.7	105.1
82.5°	41.0	60.7	62.4	65.6	65.6
85°	26.2	31.2	32.9	31.2	29.5
87.5°	11.5	13.1	9.9	6.6	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)