

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-LD5-39SE-SQP-UNV-L835-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-LD5-39SE-SQP-UNV-L835-CD1-U  
Description:

Light Source: -  
Ballast/Driver: -

**Summary**

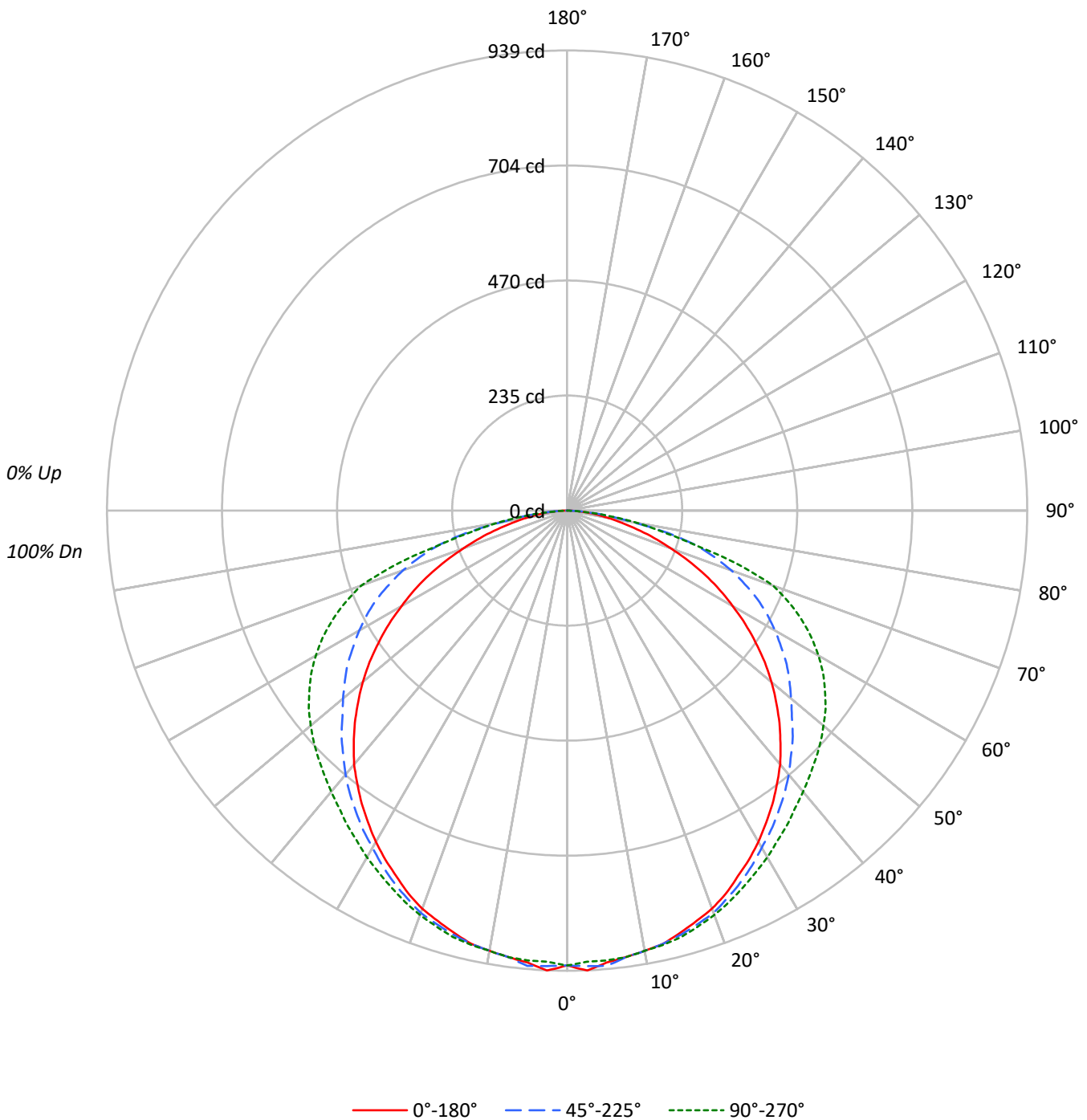
Lumens per Lamp: N/A  
Luminaire Lumens: 2921.9 lumens  
Efficiency: N/A  
Efficacy: 83.8 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 34.88  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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																		
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	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°	2497	2497	2497
5°	2490	2504	2478
10°	2471	2462	2471
15°	2452	2451	2476
20°	2431	2439	2470
25°	2390	2407	2462
30°	2357	2371	2467
35°	2319	2351	2485
40°	2280	2333	2524
45°	2221	2315	2599
50°	2152	2304	2699
55°	2057	2330	2812
60°	1933	2350	2933
65°	1788	2371	3040
70°	1554	2347	3092
75°	1292	2221	2346
80°	1014	1481	1753
85°	713	775	802



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.1	3.0
10°-20°	253.1	8.7
20°-30°	385.6	13.2
30°-40°	471.8	16.1
40°-50°	507.7	17.4
50°-60°	491.8	16.8
60°-70°	416.6	14.3
70°-80°	251.8	8.6
80°-90°	55.3	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°	726.8	24.9
0°-40°	1198.6	41.0
0°-60°	2198.1	75.2
0°-90°	2921.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2921.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	928	928	928	928	928	
5°	926	926	933	928	921	88
15°	892	894	896	899	901	252
25°	824	828	837	844	849	380
35°	731	735	751	772	783	457
45°	613	624	651	692	717	472
55°	470	490	547	610	642	420
65°	311	345	429	497	529	306
75°	148	200	270	275	268	159
85°	36	43	45	43	41	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	928.1	928.1	928.1	928.1	928.1
2.5°	939.4	937.1	930.3	925.8	921.3
5°	925.8	925.8	932.6	928.1	921.3
7.5°	919.0	919.0	919.0	930.3	919.0
10°	912.2	914.4	912.2	921.3	912.2
12.5°	905.4	905.4	905.4	907.6	907.6
15°	891.8	894.0	896.3	898.6	900.8
17.5°	878.1	880.4	884.9	887.2	889.5
20°	864.5	866.8	873.6	873.6	878.1
22.5°	846.4	846.4	855.4	857.7	864.5
25°	823.7	828.2	837.3	844.1	848.6
27.5°	803.3	807.8	816.9	825.9	832.8
30°	780.6	785.1	794.2	807.8	816.9
32.5°	755.6	760.1	773.8	789.6	798.7
35°	730.6	735.2	751.1	771.5	782.8
37.5°	703.4	710.2	728.4	751.1	764.7
40°	676.2	683.0	703.4	728.4	748.8
42.5°	644.4	653.5	676.2	710.2	732.9
45°	612.7	624.0	651.2	692.1	717.0
47.5°	578.6	590.0	621.7	673.9	701.1
50°	544.6	558.2	596.8	653.5	683.0
52.5°	508.3	521.9	571.8	633.1	664.8
55°	469.7	490.1	546.9	610.4	642.2
57.5°	431.1	453.8	517.4	585.4	619.5
60°	390.3	417.5	490.1	558.2	592.2
62.5°	351.7	381.2	460.6	528.7	562.7
65°	310.9	344.9	428.9	496.9	528.7
67.5°	267.8	310.9	392.6	458.4	490.1
70°	224.6	274.6	356.2	417.5	447.0
72.5°	186.1	238.3	315.4	367.6	367.6
75°	147.5	199.7	270.0	274.6	267.8
77.5°	113.5	163.4	211.0	192.9	197.4
80°	84.0	124.8	133.9	140.7	145.2
82.5°	56.7	84.0	86.2	90.8	90.8
85°	36.3	43.1	45.4	43.1	40.8
87.5°	15.9	18.2	13.6	9.1	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)