

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-LD5-44SE-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-LD5-44SE-SQP-UNV-L830-CD1-U  
Description:

Light Source: -  
Ballast/Driver: -

**Summary**

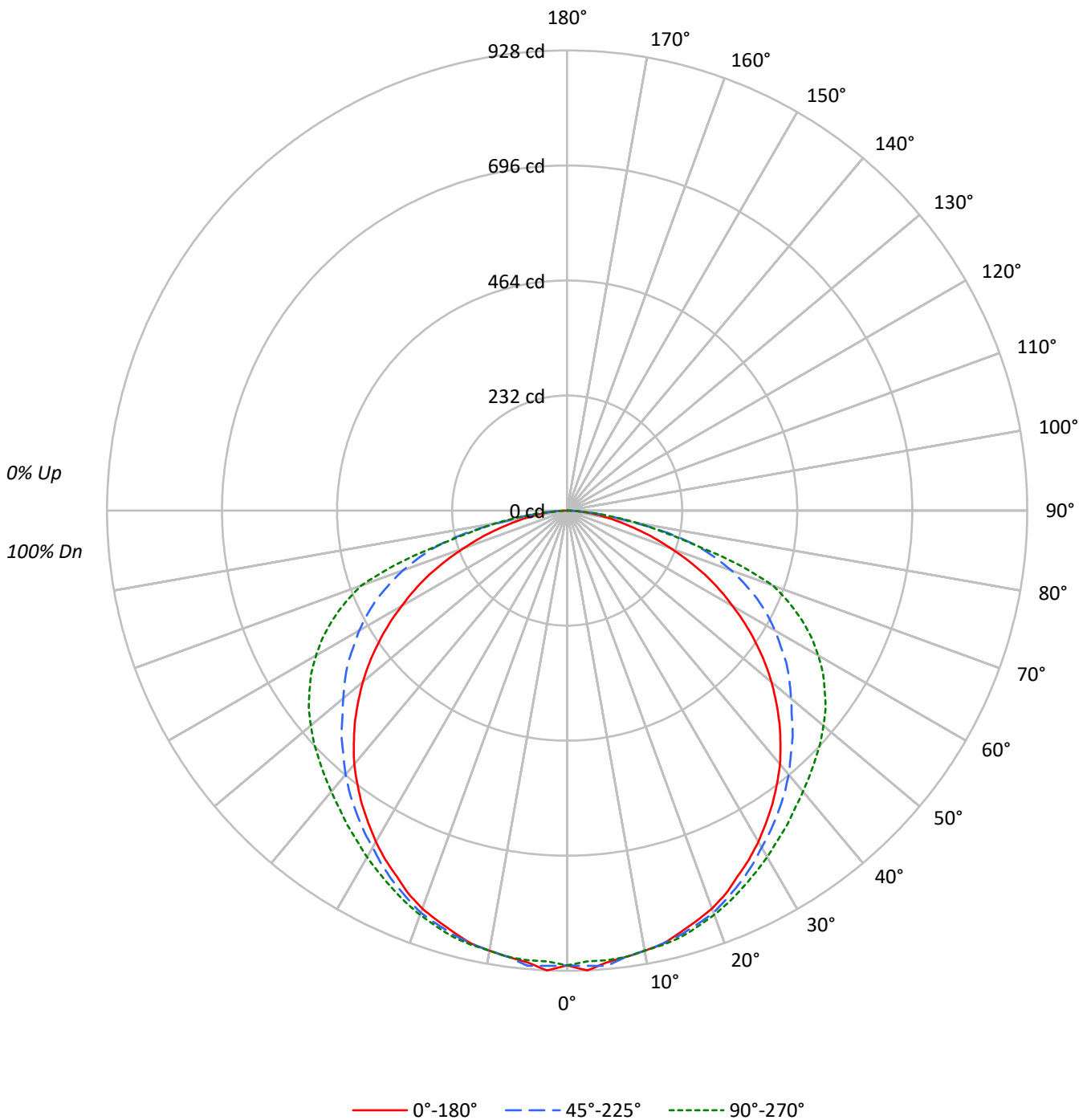
Lumens per Lamp: N/A  
Luminaire Lumens: 2886.7 lumens  
Efficiency: N/A  
Efficacy: 72.2 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 40  
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				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°	2467	2467	2467
5°	2460	2474	2448
10°	2441	2432	2441
15°	2422	2421	2447
20°	2402	2410	2440
25°	2361	2378	2433
30°	2329	2342	2437
35°	2291	2323	2455
40°	2252	2304	2494
45°	2194	2287	2568
50°	2126	2276	2666
55°	2032	2302	2778
60°	1910	2322	2898
65°	1766	2343	3004
70°	1535	2319	3056
75°	1277	2195	2318
80°	1001	1462	1731
85°	705	765	794



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.1	3.0
10°-20°	250.0	8.7
20°-30°	381.0	13.2
30°-40°	466.2	16.1
40°-50°	501.6	17.4
50°-60°	485.9	16.8
60°-70°	411.6	14.3
70°-80°	248.8	8.6
80°-90°	54.7	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°	718.1	24.9
0°-40°	1184.2	41.0
0°-60°	2171.7	75.2
0°-90°	2886.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2886.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	917	917	917	917	917	
5°	915	915	921	917	910	87
15°	881	883	886	888	890	249
25°	814	818	827	834	838	376
35°	722	726	742	762	773	451
45°	605	617	643	684	708	467
55°	464	484	540	603	634	415
65°	307	341	424	491	522	302
75°	146	197	267	271	265	157
85°	36	43	45	43	40	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	916.9	916.9	916.9	916.9	916.9
2.5°	928.2	925.9	919.1	914.7	910.2
5°	914.7	914.7	921.4	916.9	910.2
7.5°	907.9	907.9	907.9	919.1	907.9
10°	901.2	903.4	901.2	910.2	901.2
12.5°	894.5	894.5	894.5	896.7	896.7
15°	881.0	883.3	885.5	887.8	890.1
17.5°	867.6	869.8	874.3	876.6	878.8
20°	854.1	856.4	863.1	863.1	867.6
22.5°	836.2	836.2	845.2	847.4	854.1
25°	813.8	818.2	827.3	834.0	838.5
27.5°	793.6	798.1	807.0	816.0	822.8
30°	771.2	775.7	784.6	798.1	807.0
32.5°	746.5	751.0	764.5	780.1	789.2
35°	721.9	726.4	742.0	762.2	773.4
37.5°	694.9	701.7	719.6	742.0	755.5
40°	668.0	674.8	694.9	719.6	739.8
42.5°	636.7	645.6	668.0	701.7	724.1
45°	605.3	616.6	643.4	683.7	708.4
47.5°	571.7	582.9	614.3	665.9	692.7
50°	538.1	551.5	589.6	645.6	674.8
52.5°	502.2	515.7	565.0	625.5	656.8
55°	464.1	484.2	540.3	603.1	634.4
57.5°	426.0	448.4	511.1	578.4	612.0
60°	385.6	412.5	484.2	551.5	585.1
62.5°	347.5	376.7	455.0	522.3	555.9
65°	307.1	340.8	423.7	491.0	522.3
67.5°	264.6	307.1	387.8	452.9	484.2
70°	221.9	271.2	352.0	412.5	441.7
72.5°	183.8	235.4	311.6	363.2	363.2
75°	145.7	197.3	266.8	271.2	264.6
77.5°	112.1	161.4	208.5	190.6	195.0
80°	82.9	123.3	132.2	139.0	143.4
82.5°	56.0	82.9	85.2	89.7	89.7
85°	35.9	42.6	44.8	42.6	40.4
87.5°	15.7	18.0	13.5	8.9	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)