

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-LD5-39-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-LD5-39-SQP-UNV-L840-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2959.2 lumens
Efficiency: N/A
Efficacy: 81.3 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

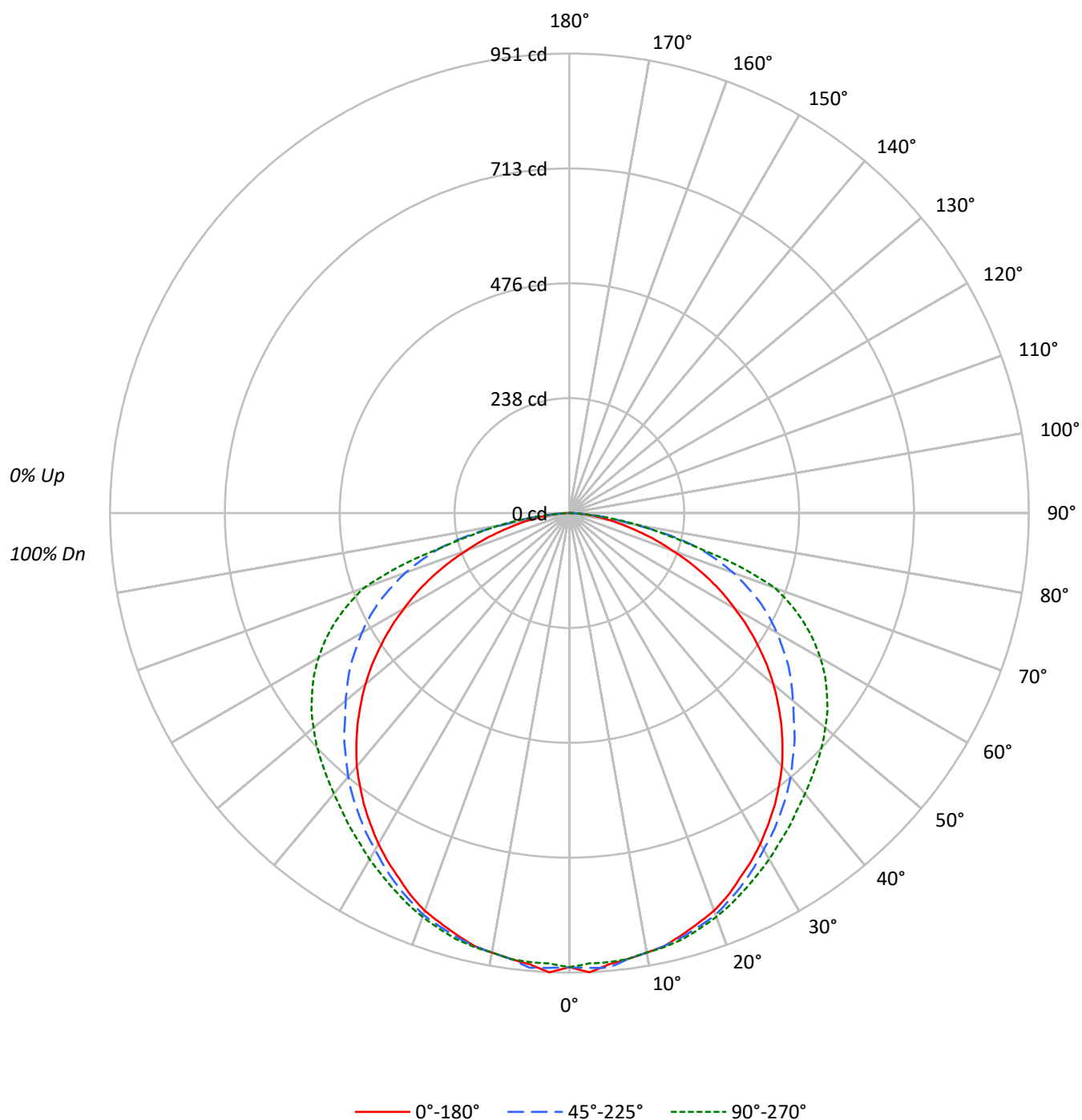
Input Watts (W): 36.41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		77
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		68
4	81	68	59	52	79	67	58	52	64	57	51		62	56	50		60
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		54
6	68	55	45	39	66	54	45	39	52	44	38		50	43	38		48
7	63	49	40	34	62	49	40	34	47	39	34		45	39	33		44
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40
9	55	41	33	27	54	41	33	27	39	32	27		38	32	27		37
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2529	2529	2529
5°	2522	2536	2509
10°	2502	2493	2502
15°	2483	2482	2508
20°	2463	2470	2501
25°	2420	2437	2494
30°	2387	2401	2499
35°	2349	2381	2516
40°	2309	2362	2557
45°	2249	2344	2632
50°	2179	2334	2733
55°	2083	2360	2848
60°	1958	2380	2971
65°	1810	2401	3080
70°	1574	2377	3132
75°	1309	2250	2376
80°	1026	1500	1776
85°	723	785	813



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.2	3.0
10°-20°	256.3	8.7
20°-30°	390.6	13.2
30°-40°	477.9	16.1
40°-50°	514.2	17.4
50°-60°	498.1	16.8
60°-70°	421.9	14.3
70°-80°	255.0	8.6
80°-90°	56.0	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°	736.1	24.9
0°-40°	1214.0	41.0
0°-60°	2226.2	75.2
0°-90°	2959.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2959.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	940	940	940	940	940	
5°	938	938	944	940	933	89
15°	903	906	908	910	912	255
25°	834	839	848	855	860	385
35°	740	745	761	781	793	463
45°	620	632	660	701	726	478
55°	476	496	554	618	650	425
65°	315	349	434	503	536	310
75°	149	202	274	278	271	160
85°	37	44	46	44	41	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	939.9	939.9	939.9	939.9	939.9
2.5°	951.4	949.1	942.2	937.6	933.0
5°	937.6	937.6	944.5	939.9	933.0
7.5°	930.7	930.7	930.7	942.2	930.7
10°	923.8	926.1	923.8	933.0	923.8
12.5°	916.9	916.9	916.9	919.2	919.2
15°	903.2	905.5	907.8	910.0	912.3
17.5°	889.4	891.7	896.3	898.6	900.9
20°	875.6	877.9	884.8	884.8	889.4
22.5°	857.2	857.2	866.4	868.7	875.6
25°	834.2	838.8	848.0	854.9	859.5
27.5°	813.5	818.1	827.3	836.5	843.4
30°	790.5	795.1	804.3	818.1	827.3
32.5°	765.3	769.9	783.7	799.7	808.9
35°	740.0	744.6	760.7	781.4	792.8
37.5°	712.4	719.3	737.7	760.7	774.5
40°	684.8	691.7	712.4	737.7	758.4
42.5°	652.7	661.9	684.8	719.3	742.3
45°	620.5	632.0	659.6	700.9	726.2
47.5°	586.0	597.5	629.7	682.5	710.1
50°	551.5	565.3	604.4	661.9	691.7
52.5°	514.8	528.6	579.1	641.2	673.3
55°	475.7	496.4	553.8	618.2	650.4
57.5°	436.6	459.6	524.0	592.9	627.4
60°	395.3	422.9	496.4	565.3	599.8
62.5°	356.2	386.1	466.5	535.5	569.9
65°	314.8	349.3	434.3	503.3	535.5
67.5°	271.2	314.8	397.6	464.2	496.4
70°	227.5	278.1	360.8	422.9	452.7
72.5°	188.4	241.3	319.4	372.3	372.3
75°	149.4	202.2	273.5	278.1	271.2
77.5°	114.9	165.5	213.7	195.3	199.9
80°	85.0	126.4	135.6	142.5	147.1
82.5°	57.5	85.0	87.3	91.9	91.9
85°	36.8	43.7	46.0	43.7	41.4
87.5°	16.1	18.4	13.8	9.2	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)