

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: P345126

Luminaire Tested: **22CZ-39-L830-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345126
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1905-313-3)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-39-L830-HRP-UNV-CD1-U
Description: CRUZE 2X2 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3441.2 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

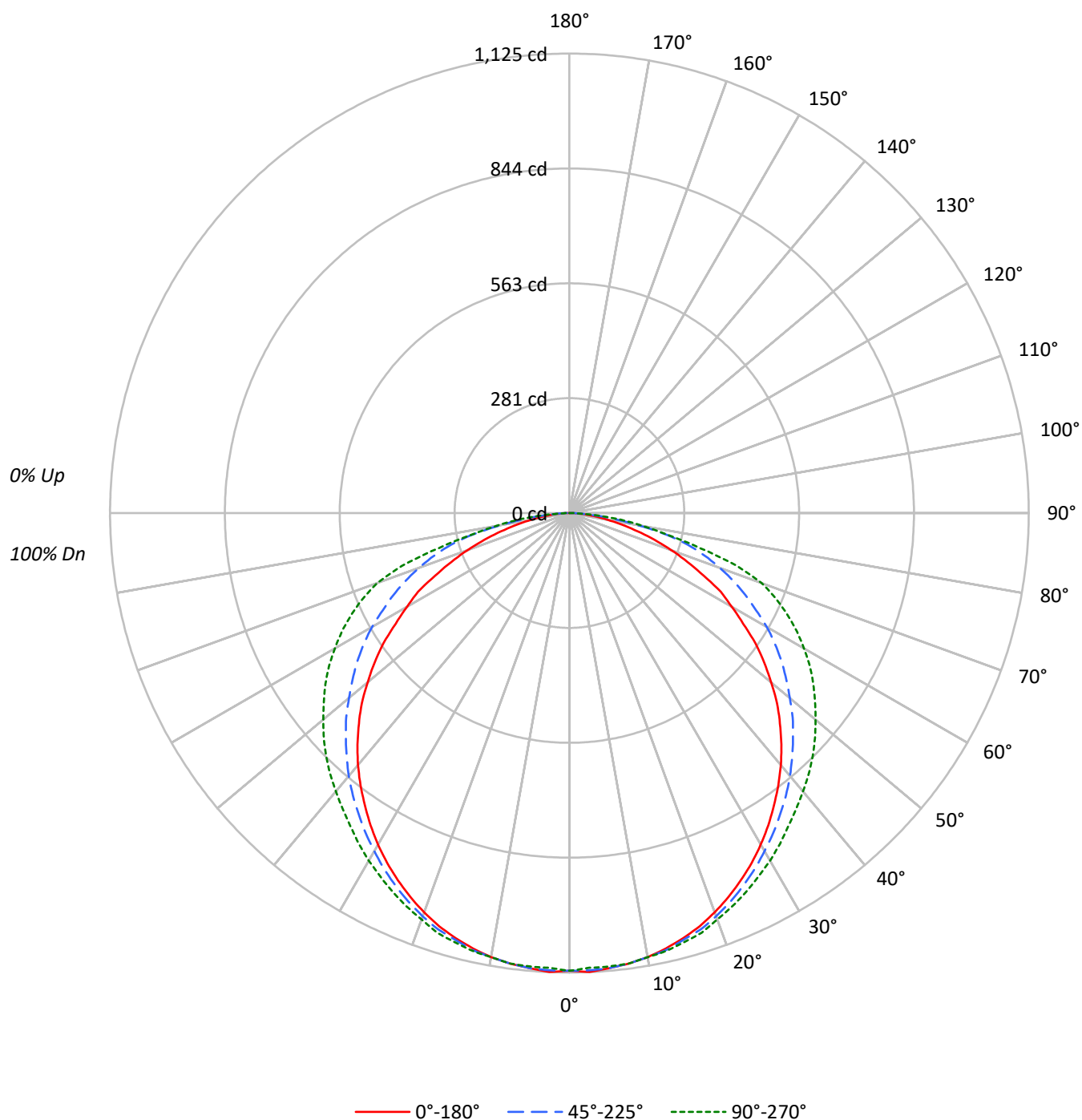
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P345126

CATALOG NUMBER: 22CZ-39-L830-HRP-UNV-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P345126

CATALOG NUMBER: 22CZ-39-L830-HRP-UNV-CD1-U

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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	72		68
3	89	78	69	63	86	76	68	62	73	67	61		71	65	60		57
4	81	69	60	53	79	67	59	52	65	57	52		63	56	51		48
5	75	61	52	45	72	60	51	45	58	50	44		56	49	44		41
6	69	55	46	39	67	54	45	39	52	44	39		50	44	38		36
7	64	50	41	34	62	49	40	34	47	40	34		46	39	34		32
8	59	45	37	31	58	45	36	31	43	36	30		42	35	30		28
9	55	42	33	28	54	41	33	27	40	32	27		39	32	27		25
10	52	38	30	25	50	38	30	25	37	30	25		36	29	25		23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3015	3015	3015
5°	3021	3021	3010
10°	3017	3017	3017
15°	3001	3013	3030
20°	2979	3008	3032
25°	2948	2991	3040
30°	2912	2970	3053
35°	2869	2957	3072
40°	2829	2952	3126
45°	2775	2947	3206
50°	2699	2949	3294
55°	2609	2976	3421
60°	2472	3004	3570
65°	2308	3030	3751
70°	2090	3079	3938
75°	1799	3126	3448
80°	1469	2617	2841
85°	1207	1908	2100



TEST NUMBER: P345126

CATALOG NUMBER: 22CZ-39-L830-HRP-UNV-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.2	3.1
10°-20°	305.5	8.9
20°-30°	464.4	13.5
30°-40°	565.1	16.4
40°-50°	602.0	17.5
50°-60°	569.4	16.5
60°-70°	469.3	13.6
70°-80°	288.7	8.4
80°-90°	70.5	2.0
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°	876.2	25.5
0°-40°	1441.3	41.9
0°-60°	2612.7	75.9
0°-90°	3441.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3441.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1120	1120	1120	1120	1120	
5°	1118	1118	1118	1116	1114	106
15°	1077	1079	1081	1086	1088	304
25°	993	997	1007	1018	1024	457
35°	873	882	900	923	935	547
45°	729	742	774	818	842	562
55°	556	577	634	696	729	495
65°	362	398	476	552	589	360
75°	173	220	301	328	332	185
85°	39	52	62	66	68	46
90°	0	0	0	0	0	



TEST NUMBER: P345126

CATALOG NUMBER: 22CZ-39-L830-HRP-UNV-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1120.5	1120.5	1120.5	1120.5	1120.5
2.5°	1124.7	1122.6	1120.5	1116.4	1114.4
5°	1118.5	1118.5	1118.5	1116.4	1114.4
7.5°	1112.3	1112.3	1112.3	1112.3	1112.3
10°	1104.1	1104.1	1104.1	1104.1	1104.1
12.5°	1091.7	1093.8	1095.8	1095.8	1097.9
15°	1077.3	1079.3	1081.4	1085.5	1087.6
17.5°	1060.8	1062.9	1069.0	1073.2	1077.3
20°	1040.2	1042.3	1050.5	1054.6	1058.7
22.5°	1017.5	1021.7	1029.9	1038.1	1042.3
25°	992.8	996.9	1007.2	1017.5	1023.7
27.5°	966.0	970.2	982.5	996.9	1003.1
30°	937.2	941.3	955.7	972.2	982.5
32.5°	906.3	912.5	929.0	949.6	959.9
35°	873.4	881.6	900.1	922.8	935.2
37.5°	840.4	848.6	871.3	898.1	912.5
40°	805.4	815.7	840.4	871.3	889.8
42.5°	768.3	780.7	807.4	844.5	867.2
45°	729.2	741.5	774.5	817.7	842.5
47.5°	690.0	704.5	741.5	788.9	815.7
50°	644.7	661.2	704.5	760.1	786.8
52.5°	601.5	622.1	669.4	729.2	758.0
55°	556.1	576.7	634.4	696.2	729.2
57.5°	504.7	529.4	597.3	663.3	698.3
60°	459.3	484.1	558.2	628.2	663.3
62.5°	418.1	440.8	515.0	591.2	628.2
65°	362.5	397.5	475.8	552.0	589.1
67.5°	313.1	352.2	434.6	506.7	547.9
70°	265.7	306.9	391.4	461.4	500.5
72.5°	218.3	263.7	348.1	409.9	430.5
75°	173.0	220.4	300.7	327.5	331.6
77.5°	131.8	179.2	243.1	241.0	245.1
80°	94.8	135.9	168.9	175.1	183.3
82.5°	63.9	94.8	109.2	119.5	127.7
85°	39.1	51.5	61.8	65.9	68.0
87.5°	18.5	20.6	20.6	16.5	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)