

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: P345146

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345146
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-39SE-L830-HRP-UNV-CD1-U
Description: CRUZE 2X2 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3465.9 lumens
Efficiency: N/A
Efficacy: 99.3 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

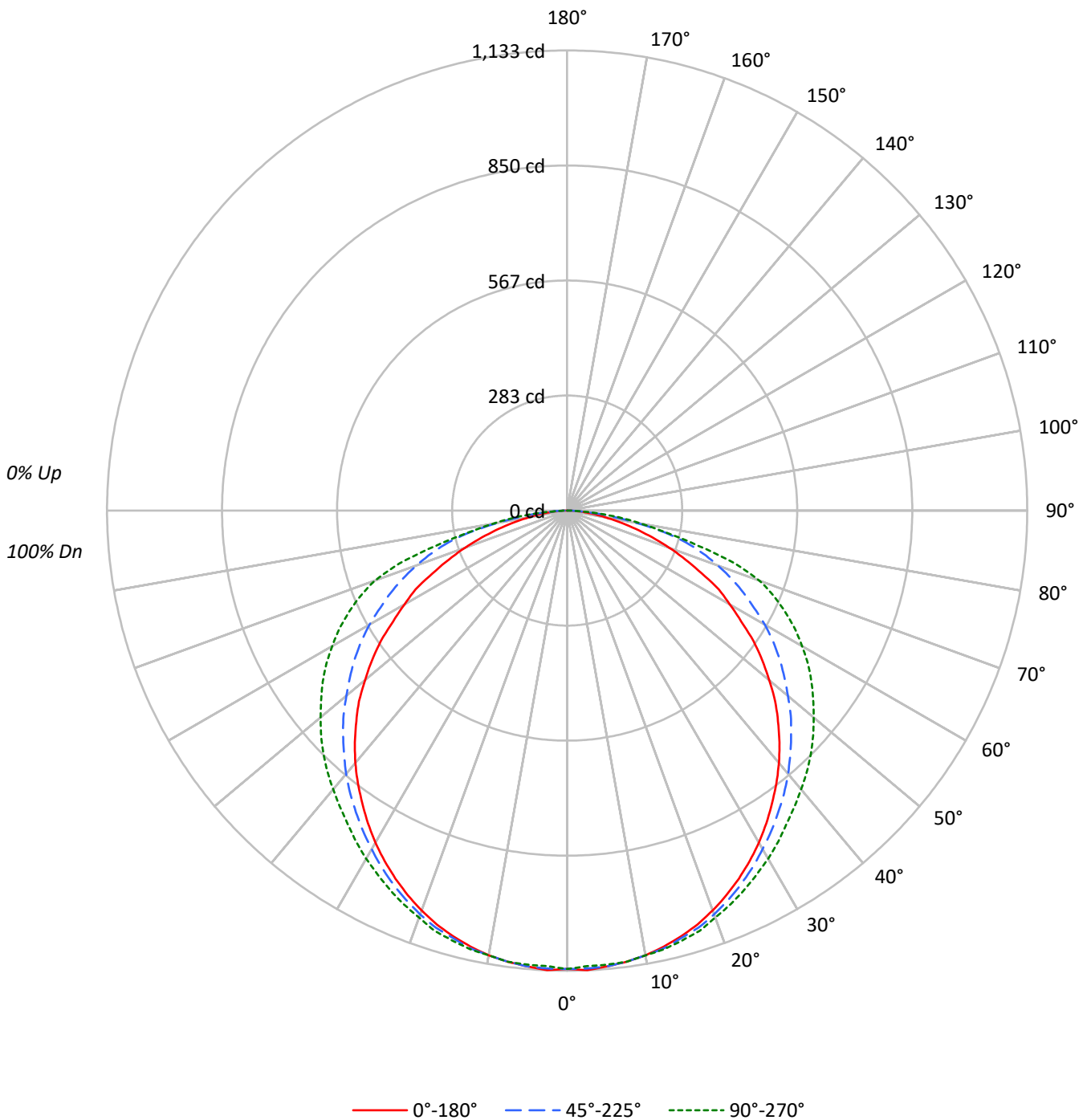
Input Watts (W): 34.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	72	77	74	70	68
3	89	78	69	63	86	76	68	62	73	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	32	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3037	3037	3037
5°	3043	3043	3032
10°	3039	3039	3039
15°	3023	3034	3052
20°	3000	3030	3054
25°	2969	3012	3062
30°	2933	2991	3075
35°	2890	2978	3094
40°	2850	2973	3148
45°	2795	2969	3229
50°	2719	2970	3318
55°	2628	2998	3445
60°	2490	3026	3595
65°	2325	3051	3778
70°	2105	3102	3966
75°	1812	3149	3473
80°	1478	2636	2861
85°	1216	1920	2115



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.0	3.1
10°-20°	307.7	8.9
20°-30°	467.8	13.5
30°-40°	569.2	16.4
40°-50°	606.3	17.5
50°-60°	573.5	16.5
60°-70°	472.7	13.6
70°-80°	290.7	8.4
80°-90°	71.0	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°	882.5	25.5
0°-40°	1451.7	41.9
0°-60°	2631.5	75.9
0°-90°	3465.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3465.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1129	1129	1129	1129	1129	
5°	1126	1126	1126	1124	1122	107
15°	1085	1087	1089	1093	1095	306
25°	1000	1004	1014	1025	1031	461
35°	880	888	907	929	942	551
45°	734	747	780	824	848	566
55°	560	581	639	701	734	499
65°	365	400	479	556	593	363
75°	174	222	303	330	334	187
85°	39	52	62	66	68	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1128.6	1128.6	1128.6	1128.6	1128.6
2.5°	1132.7	1130.7	1128.6	1124.4	1122.4
5°	1126.5	1126.5	1126.5	1124.4	1122.4
7.5°	1120.3	1120.3	1120.3	1120.3	1120.3
10°	1112.0	1112.0	1112.0	1112.0	1112.0
12.5°	1099.5	1101.6	1103.7	1103.7	1105.8
15°	1085.0	1087.1	1089.2	1093.3	1095.4
17.5°	1068.4	1070.5	1076.7	1080.9	1085.0
20°	1047.7	1049.8	1058.0	1062.2	1066.3
22.5°	1024.9	1029.0	1037.3	1045.6	1049.8
25°	1000.0	1004.1	1014.5	1024.9	1031.1
27.5°	973.0	977.1	989.6	1004.1	1010.3
30°	943.9	948.1	962.6	979.2	989.6
32.5°	912.8	919.1	935.6	956.4	966.8
35°	879.6	887.9	906.6	929.4	941.9
37.5°	846.4	854.7	877.6	904.5	919.1
40°	811.2	821.5	846.4	877.6	896.2
42.5°	773.8	786.3	813.2	850.6	873.4
45°	734.4	746.9	780.1	823.6	848.5
47.5°	695.0	709.5	746.9	794.6	821.5
50°	649.4	665.9	709.5	765.5	792.5
52.5°	605.8	626.5	674.2	734.4	763.5
55°	560.1	580.9	639.0	701.2	734.4
57.5°	508.3	533.2	601.6	668.0	703.3
60°	462.6	487.5	562.2	632.8	668.0
62.5°	421.1	444.0	518.7	595.4	632.8
65°	365.1	400.4	479.2	556.0	593.3
67.5°	315.3	354.8	437.7	510.4	551.8
70°	267.6	309.1	394.2	464.7	504.1
72.5°	219.9	265.5	350.6	412.8	433.6
75°	174.3	222.0	302.9	329.9	334.0
77.5°	132.8	180.5	244.8	242.7	246.9
80°	95.4	136.9	170.1	176.3	184.6
82.5°	64.3	95.4	110.0	120.3	128.6
85°	39.4	51.9	62.2	66.4	68.5
87.5°	18.7	20.7	20.7	16.6	16.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)