

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: P345149

Luminaire Tested: **22CZ-39SE-L850-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345149
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-L850-HRP-UNV-CD1-U
Description: CRUZE 2X2 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3859.0 lumens
Efficiency: N/A
Efficacy: 110.6 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

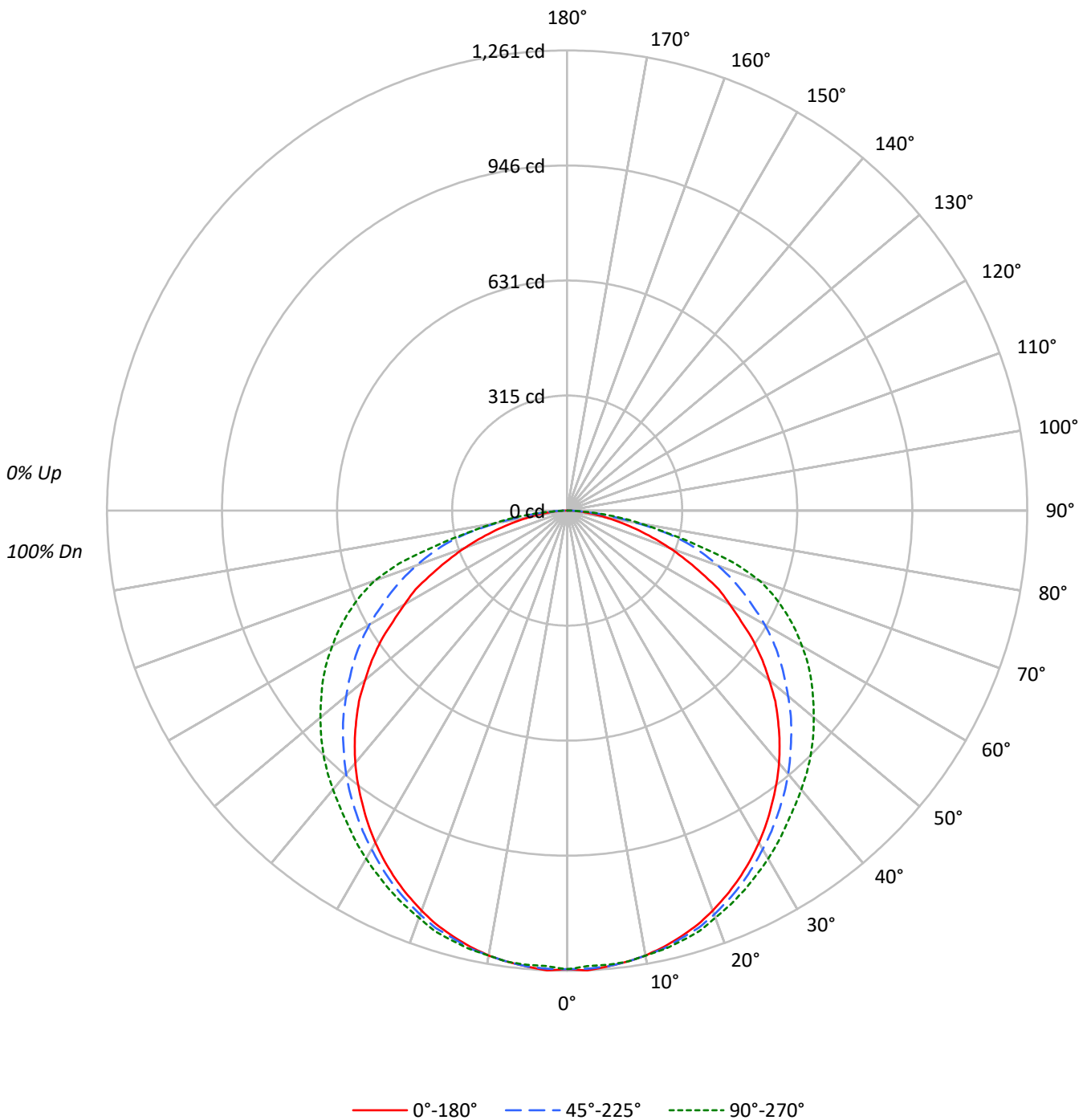
Input Watts (W): 34.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3381	3381	3381
5°	3388	3388	3375
10°	3383	3383	3383
15°	3366	3378	3398
20°	3340	3373	3400
25°	3306	3354	3409
30°	3266	3330	3424
35°	3217	3316	3445
40°	3173	3310	3505
45°	3112	3305	3595
50°	3027	3307	3694
55°	2926	3338	3836
60°	2772	3369	4003
65°	2588	3398	4206
70°	2345	3453	4416
75°	2017	3506	3867
80°	1647	2935	3186
85°	1355	2140	2353



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.1	3.1
10°-20°	342.6	8.9
20°-30°	520.8	13.5
30°-40°	633.8	16.4
40°-50°	675.1	17.5
50°-60°	638.6	16.5
60°-70°	526.3	13.6
70°-80°	323.7	8.4
80°-90°	79.0	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°	982.6	25.5
0°-40°	1616.3	41.9
0°-60°	2929.9	75.9
0°-90°	3859.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3859.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1257	1257	1257	1257	1257	
5°	1254	1254	1254	1252	1250	119
15°	1208	1210	1213	1217	1220	341
25°	1113	1118	1130	1141	1148	513
35°	979	989	1009	1035	1049	613
45°	818	832	868	917	945	630
55°	624	647	711	781	818	555
65°	406	446	534	619	661	404
75°	194	247	337	367	372	208
85°	44	58	69	74	76	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1256.6	1256.6	1256.6	1256.6	1256.6
2.5°	1261.2	1258.9	1256.6	1252.0	1249.6
5°	1254.3	1254.3	1254.3	1252.0	1249.6
7.5°	1247.3	1247.3	1247.3	1247.3	1247.3
10°	1238.1	1238.1	1238.1	1238.1	1238.1
12.5°	1224.2	1226.5	1228.9	1228.9	1231.2
15°	1208.1	1210.4	1212.7	1217.3	1219.6
17.5°	1189.6	1191.9	1198.8	1203.4	1208.1
20°	1166.5	1168.8	1178.0	1182.7	1187.3
22.5°	1141.1	1145.7	1154.9	1164.2	1168.8
25°	1113.4	1118.0	1129.5	1141.1	1148.0
27.5°	1083.3	1088.0	1101.8	1118.0	1124.9
30°	1051.0	1055.6	1071.8	1090.3	1101.8
32.5°	1016.3	1023.3	1041.8	1064.9	1076.4
35°	979.4	988.6	1009.4	1034.8	1048.7
37.5°	942.4	951.7	977.1	1007.1	1023.3
40°	903.2	914.7	942.4	977.1	997.9
42.5°	861.6	875.4	905.5	947.0	972.5
45°	817.7	831.6	868.5	917.0	944.7
47.5°	773.8	790.0	831.6	884.7	914.7
50°	723.0	741.5	790.0	852.3	882.4
52.5°	674.5	697.6	750.7	817.7	850.0
55°	623.7	646.8	711.4	780.7	817.7
57.5°	565.9	593.6	669.9	743.8	783.0
60°	515.1	542.8	626.0	704.5	743.8
62.5°	468.9	494.3	577.5	662.9	704.5
65°	406.5	445.8	533.6	619.0	660.6
67.5°	351.1	395.0	487.4	568.2	614.4
70°	298.0	344.2	438.9	517.4	561.3
72.5°	244.8	295.7	390.4	459.7	482.8
75°	194.0	247.2	337.2	367.3	371.9
77.5°	147.8	201.0	272.6	270.3	274.9
80°	106.3	152.5	189.4	196.3	205.6
82.5°	71.6	106.3	122.4	134.0	143.2
85°	43.9	57.7	69.3	73.9	76.2
87.5°	20.8	23.1	23.1	18.5	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)